

Fig. 1 is a schematic cross-sectional view of a machine tool. The machine is mounted on a base 10. A workpiece 21 is held in a chuck 22 by a lathe tool 32. A cutting tool 30 is positioned to machine the workpiece. A coolant system 50 is shown with a pump 51 and a nozzle 52. A control unit 40 is connected to the machine. The machine is labeled S1 and S2.

FIG. 2
Related Art

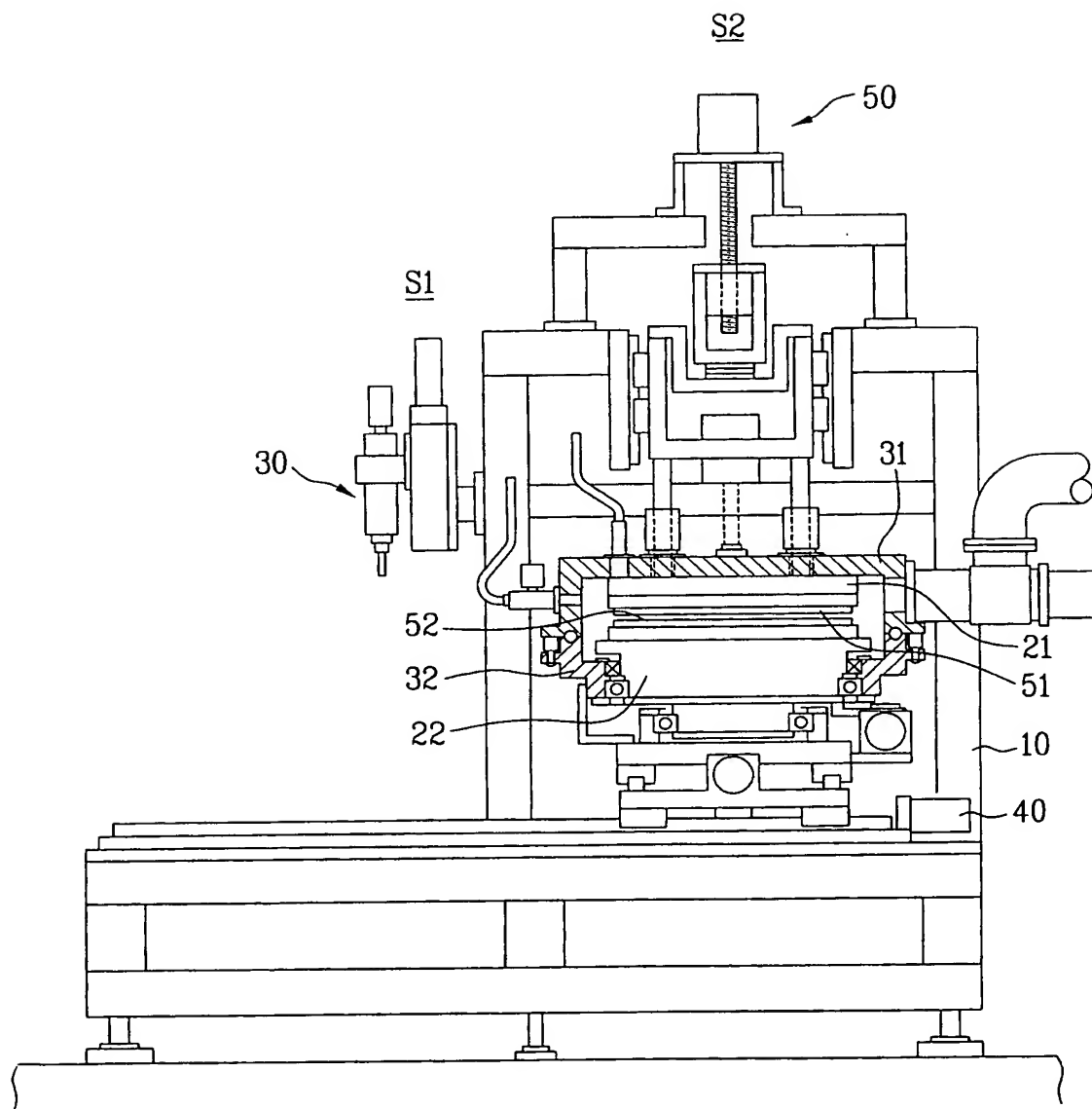


FIG. 3

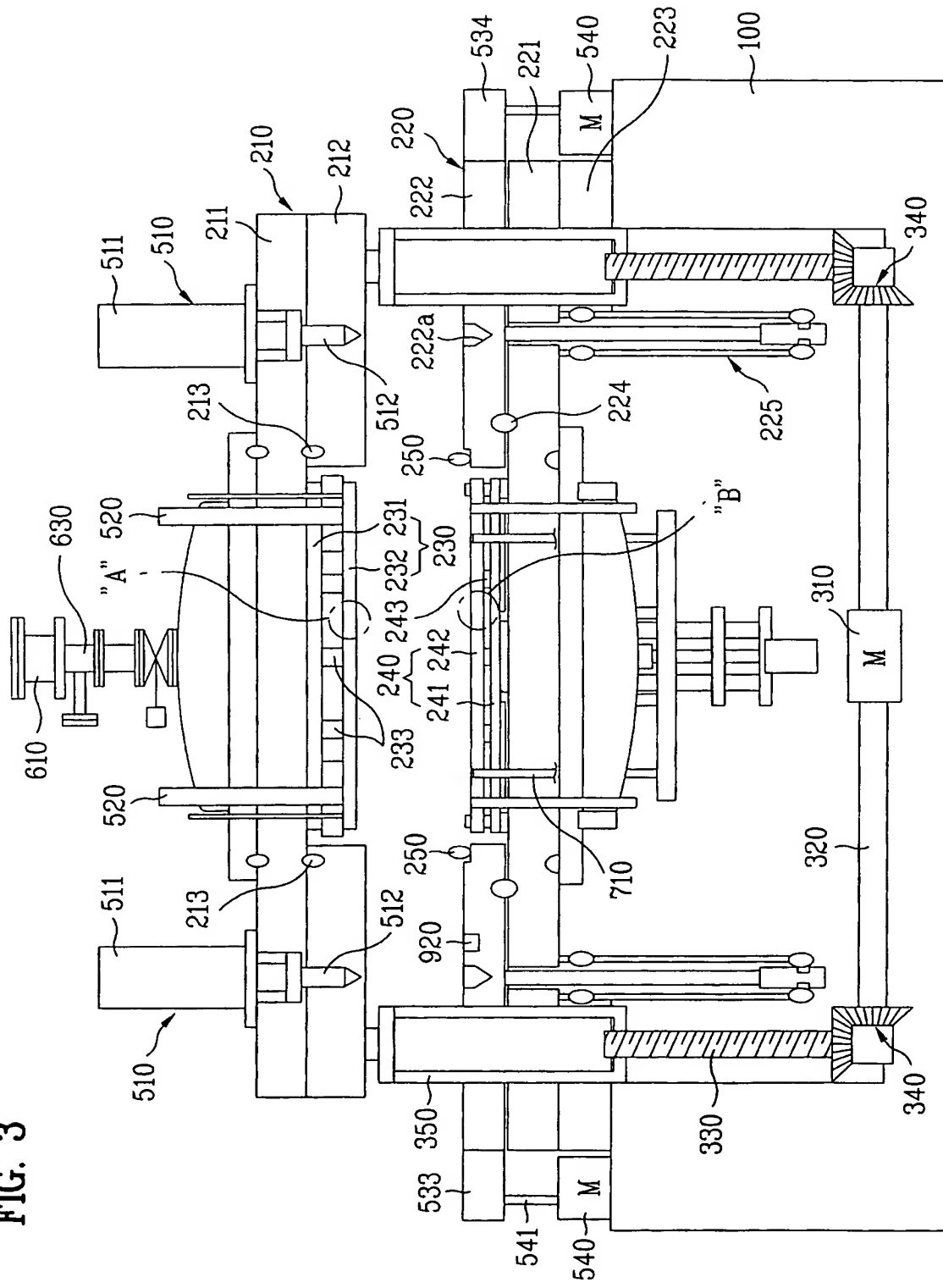


FIG. 4A

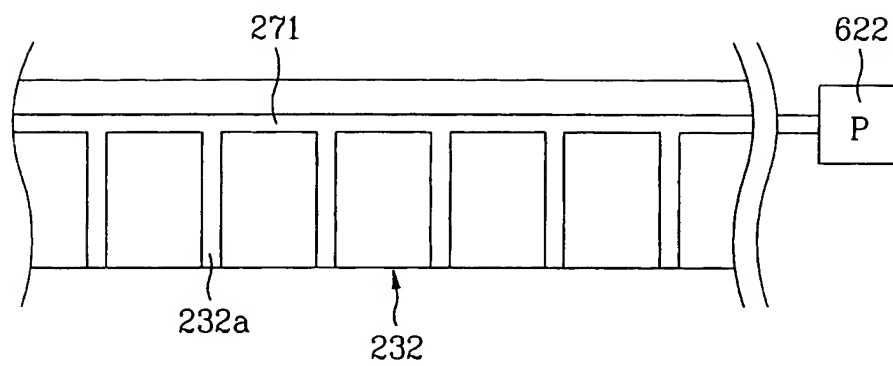


FIG. 4B

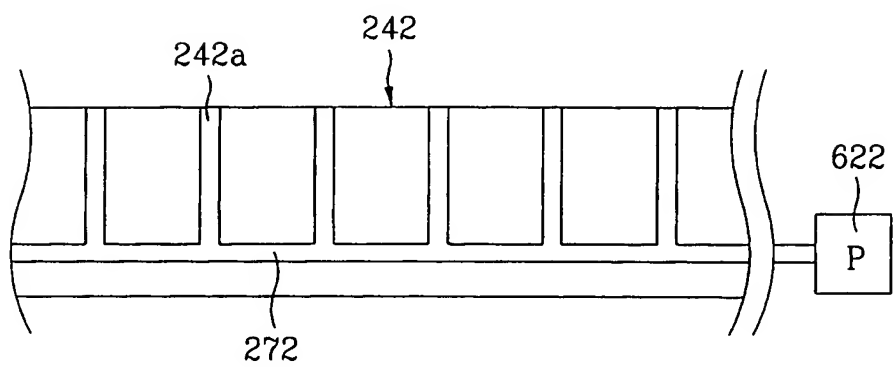


FIG. 5

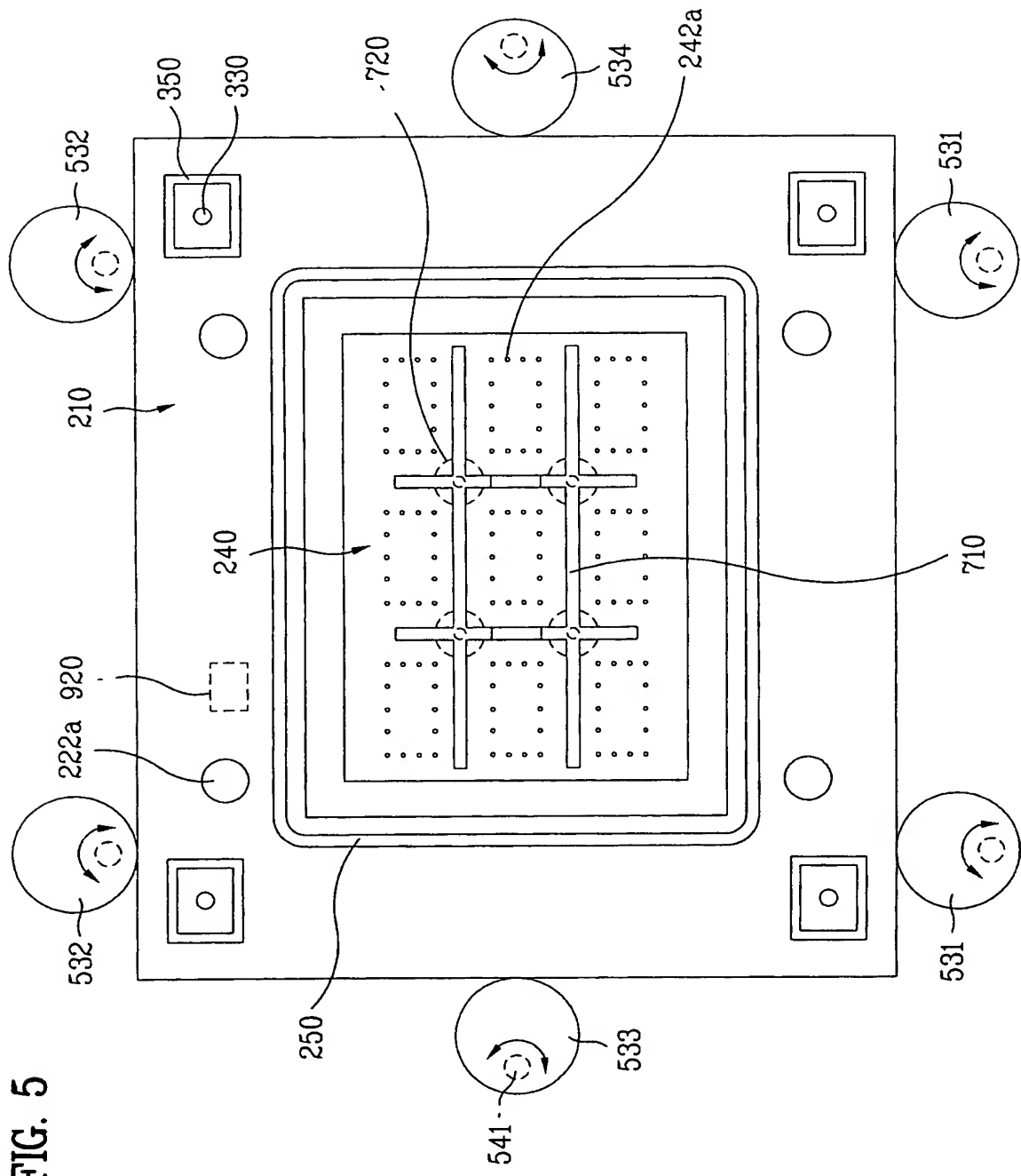


FIG. 6

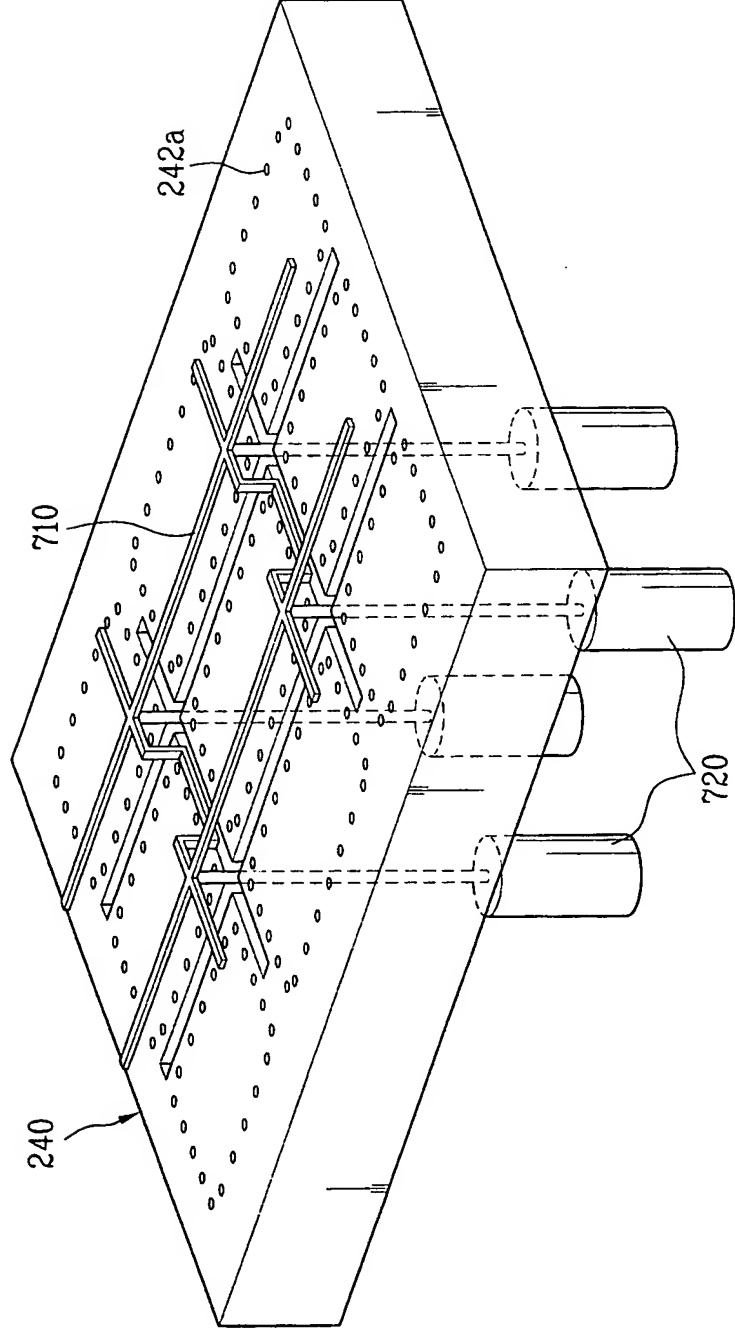


FIG. 7

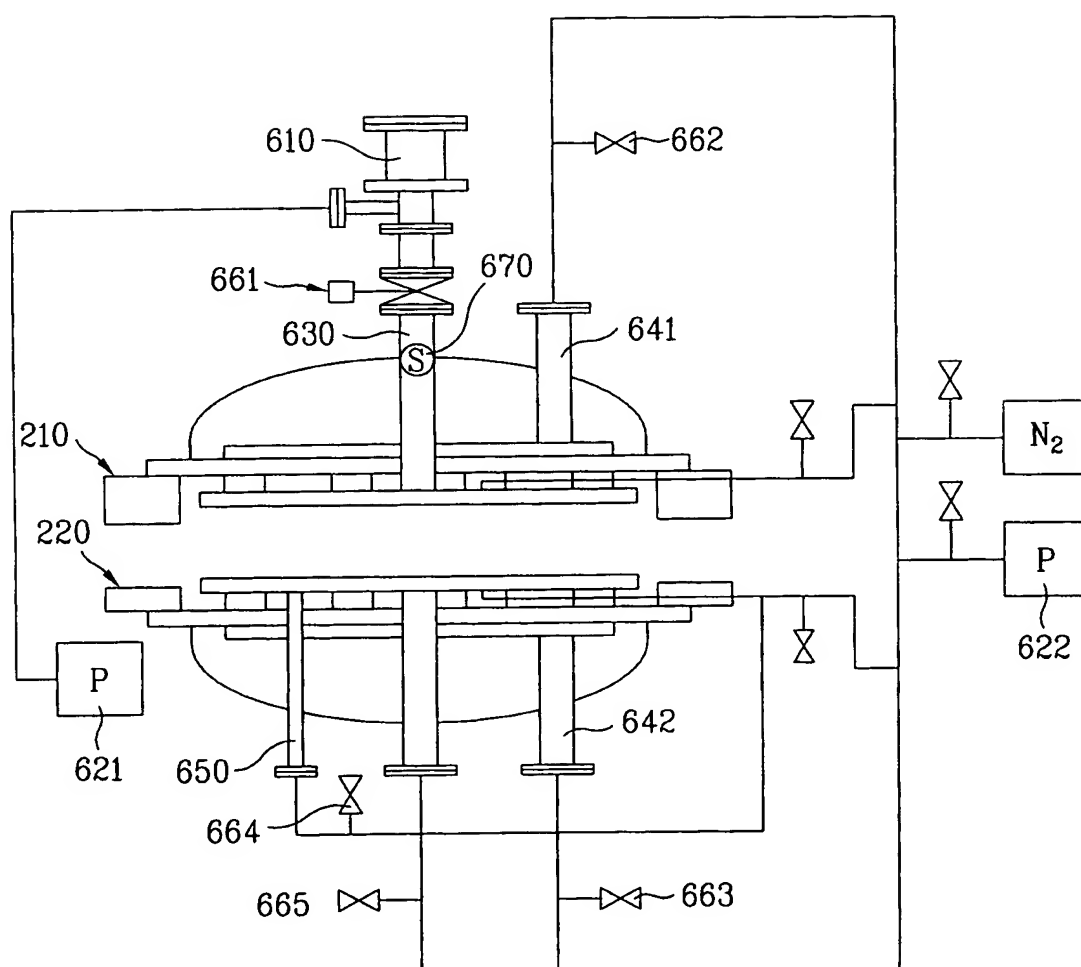


FIG. 8

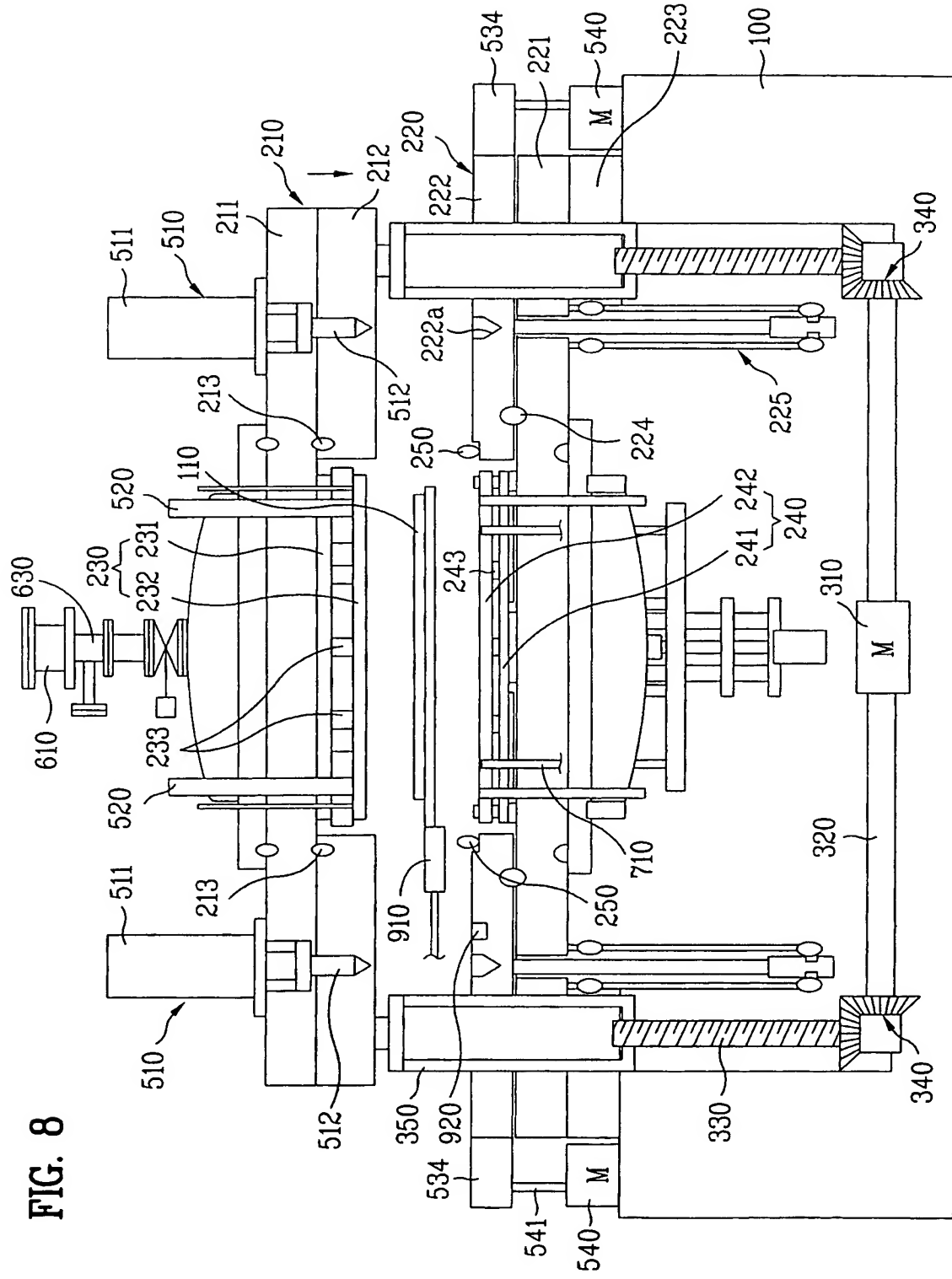


FIG. 9

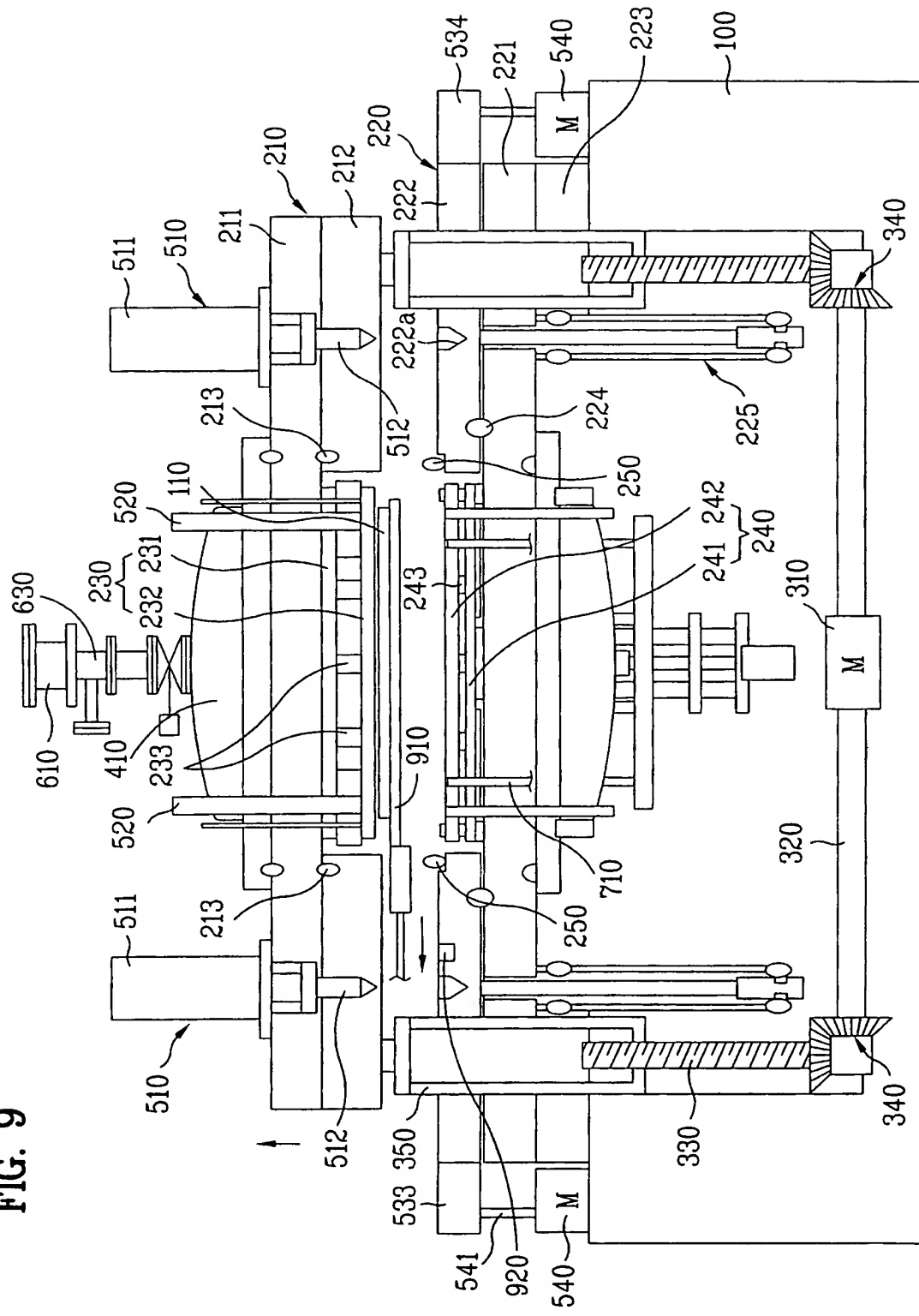


FIG. 10

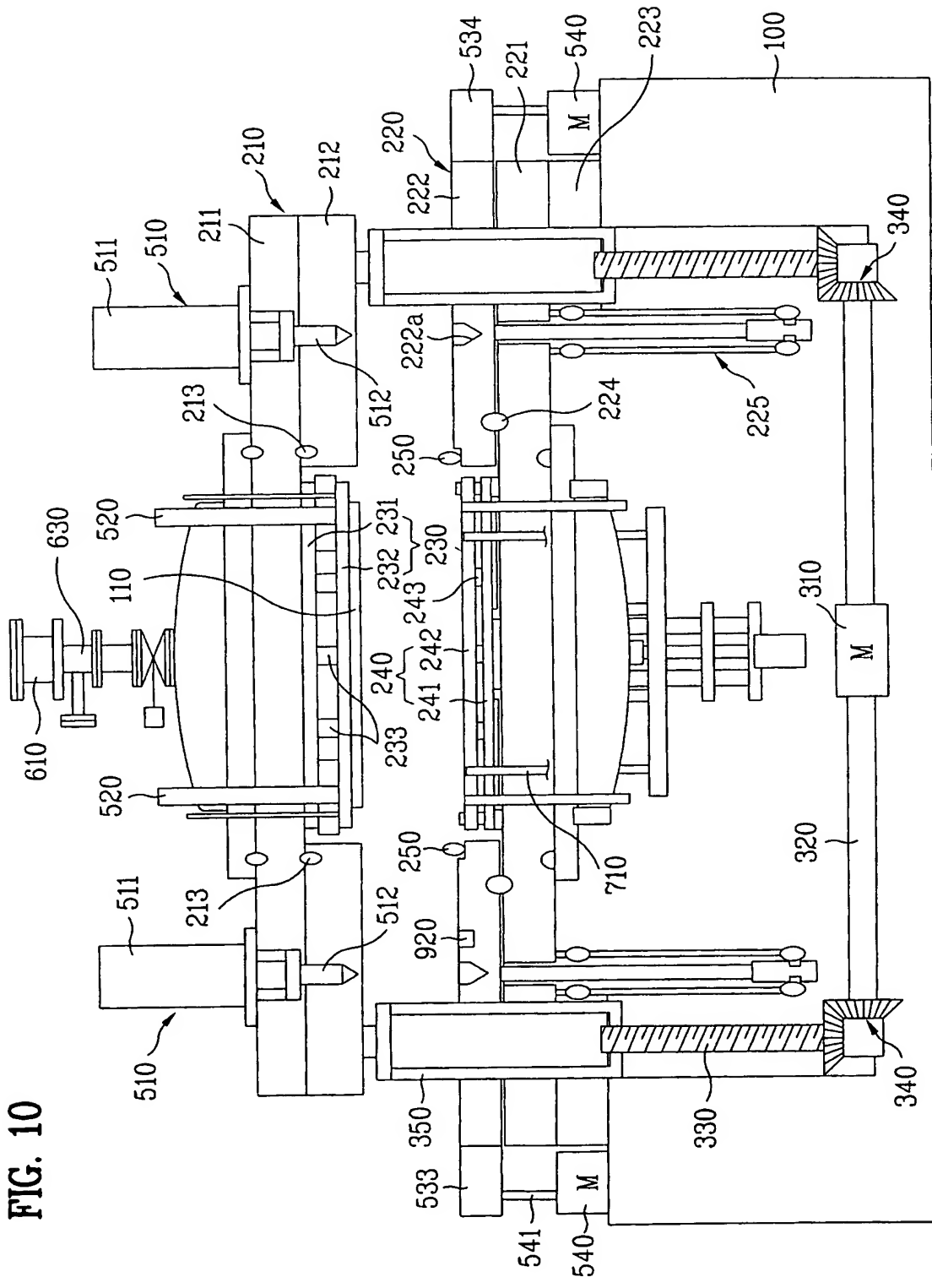


FIG. 11

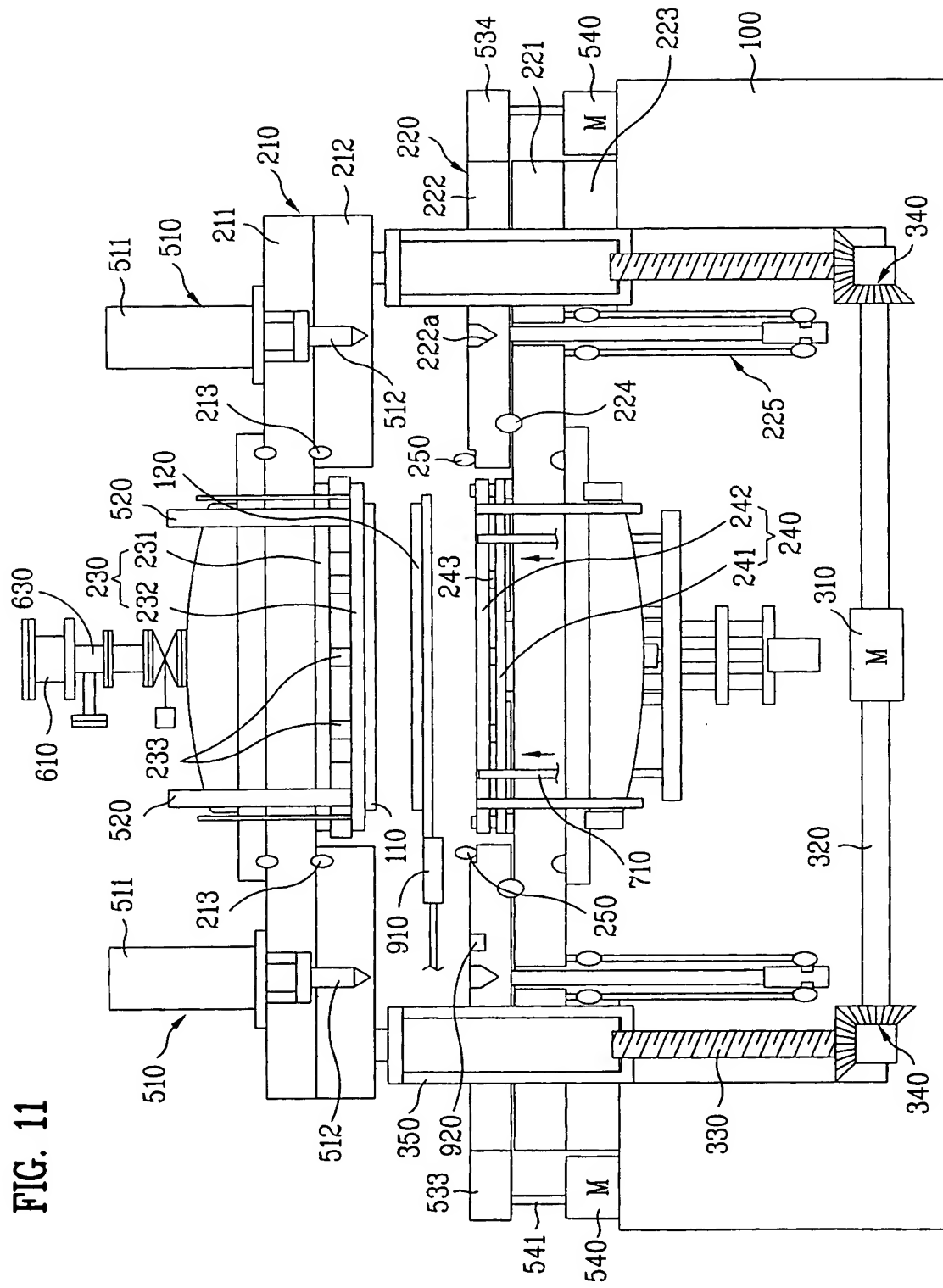
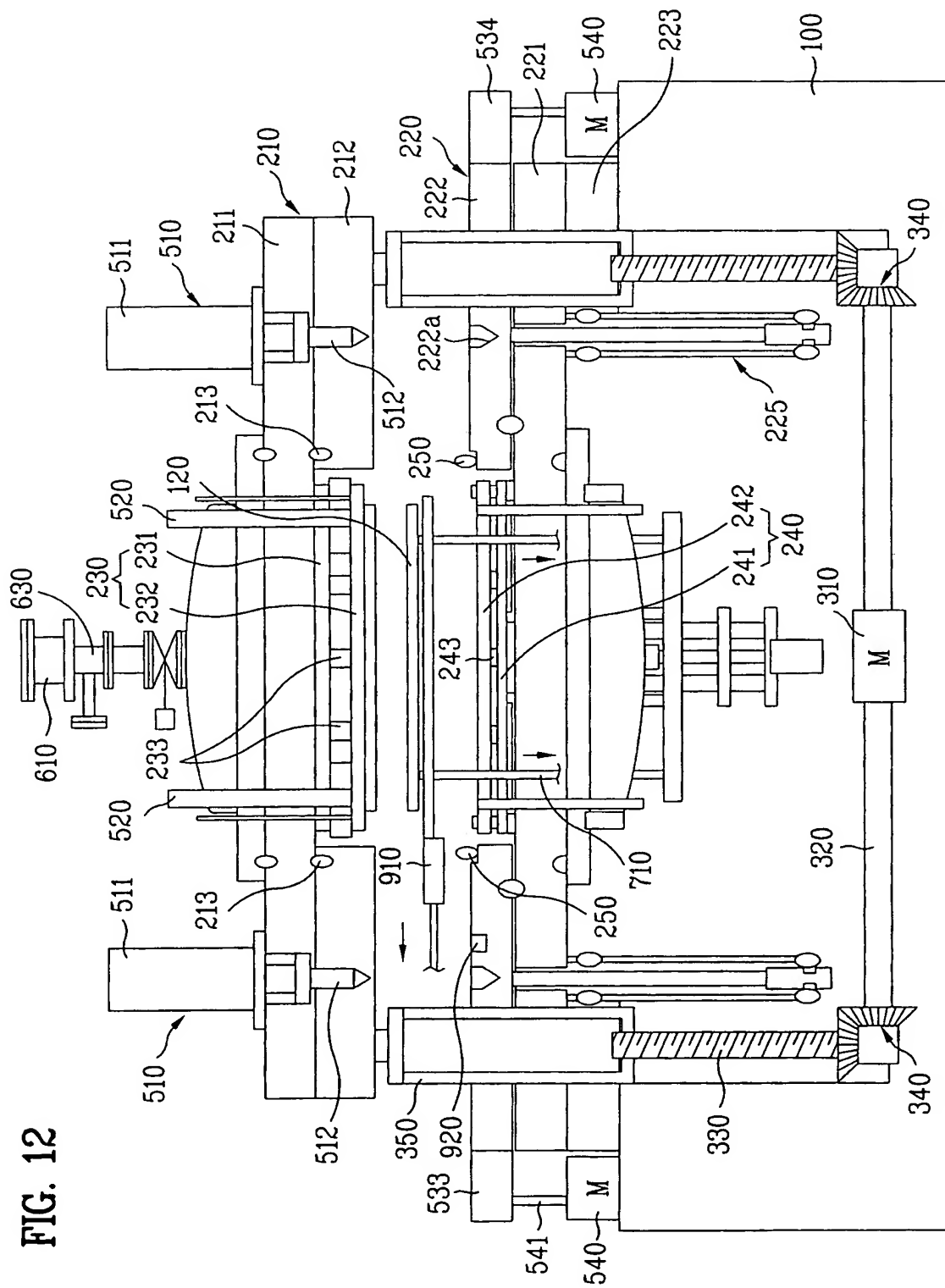


FIG. 12



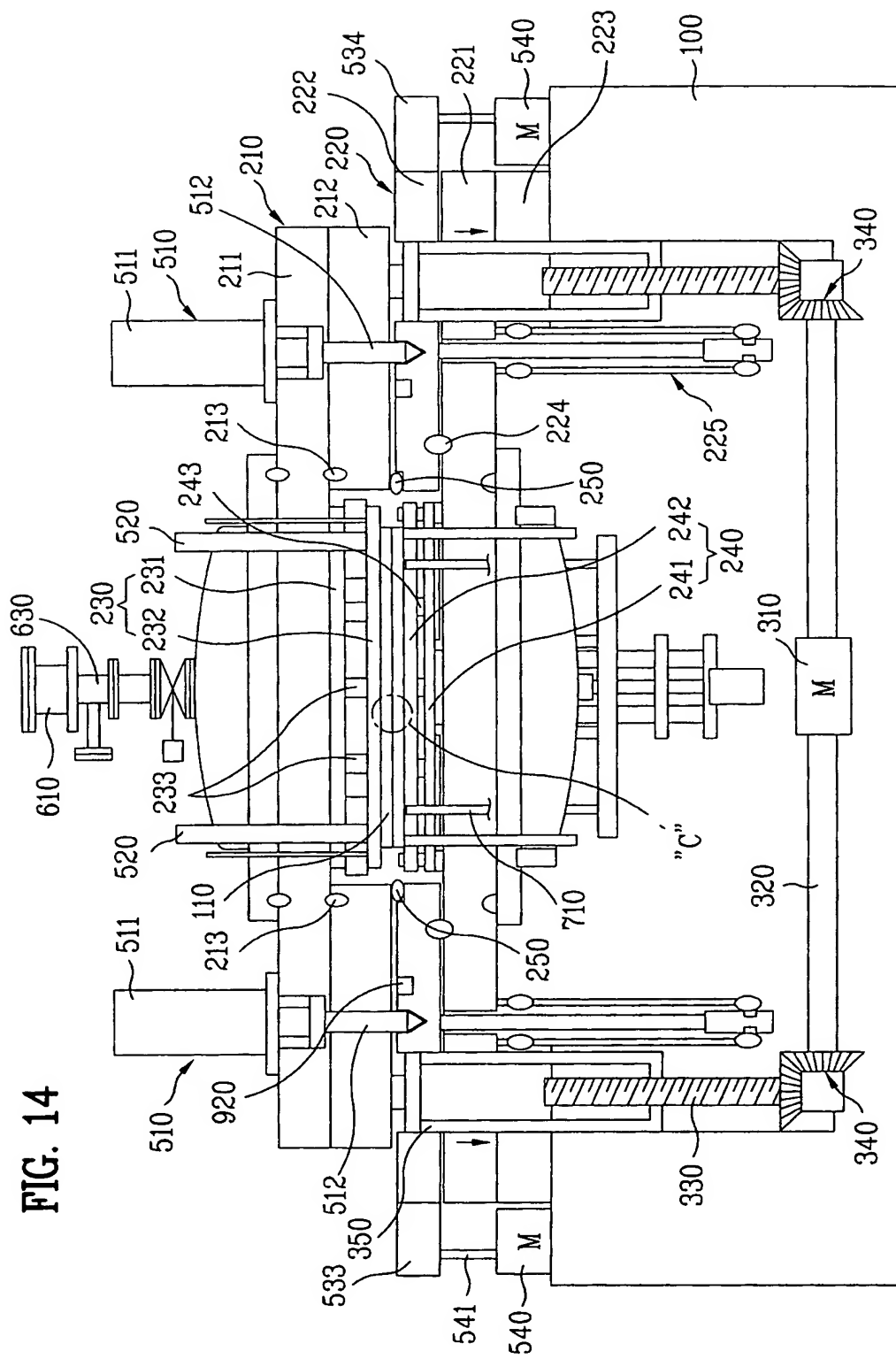
[illegible]

FIG. 15A

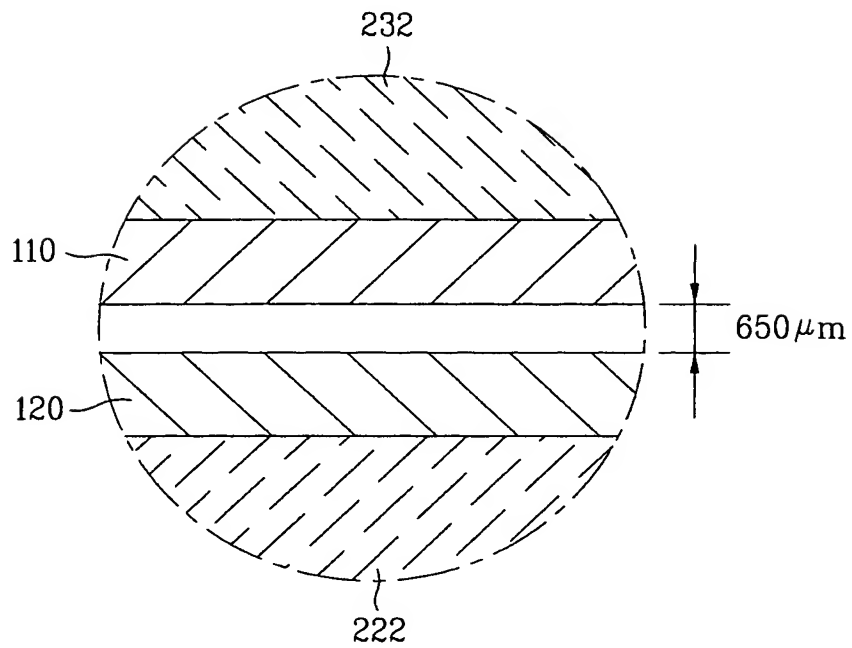


FIG. 15B

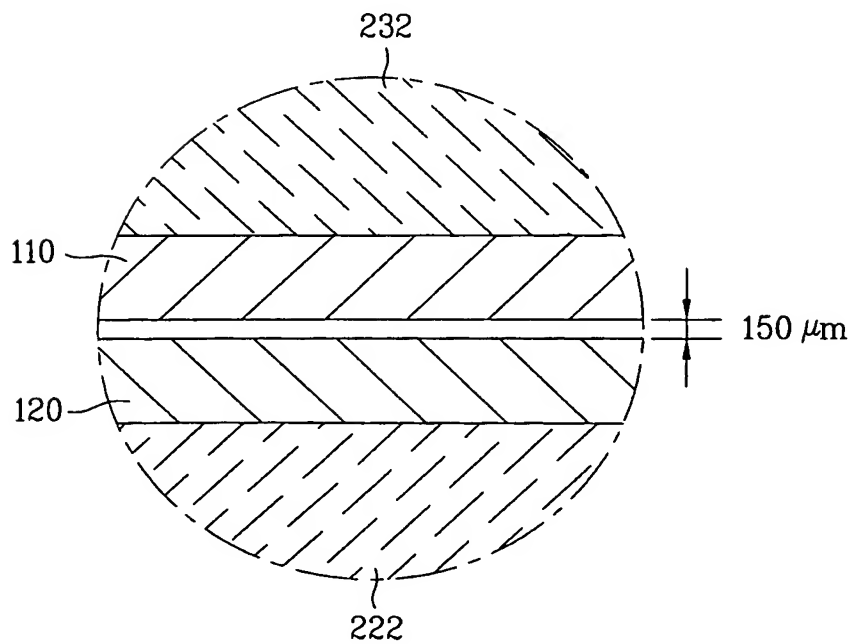


FIG. 16

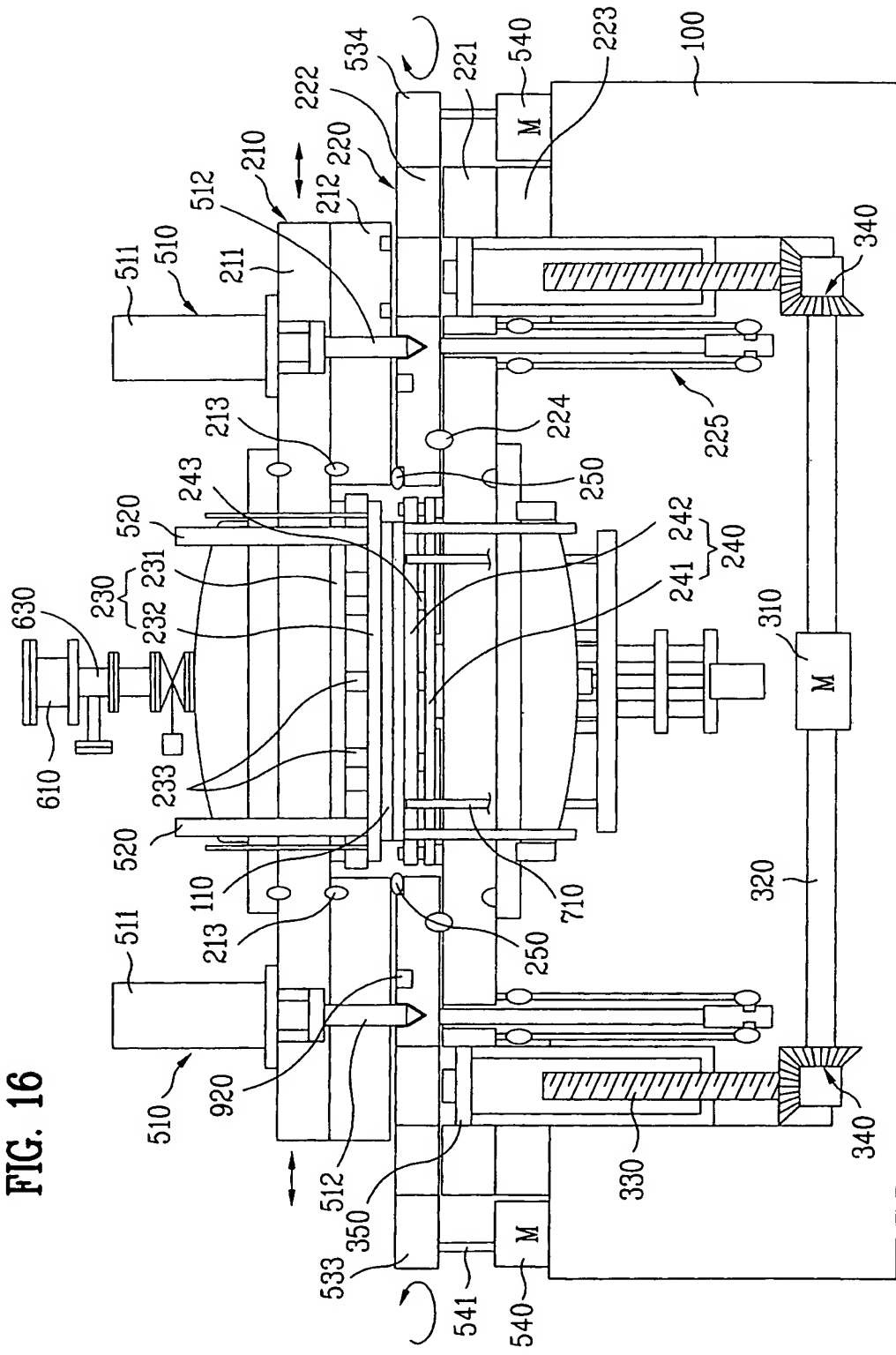


FIG. 17

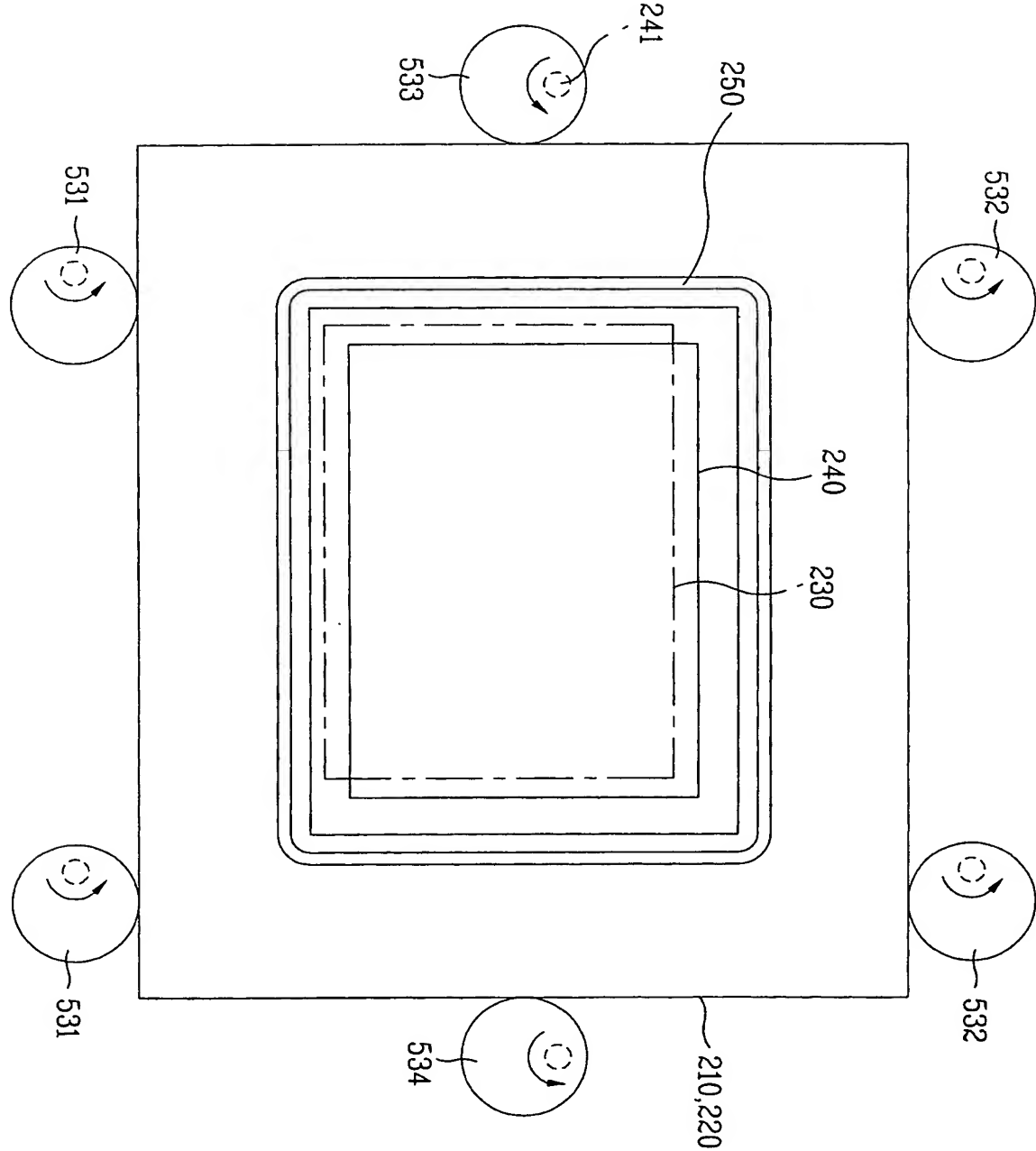


FIG. 18

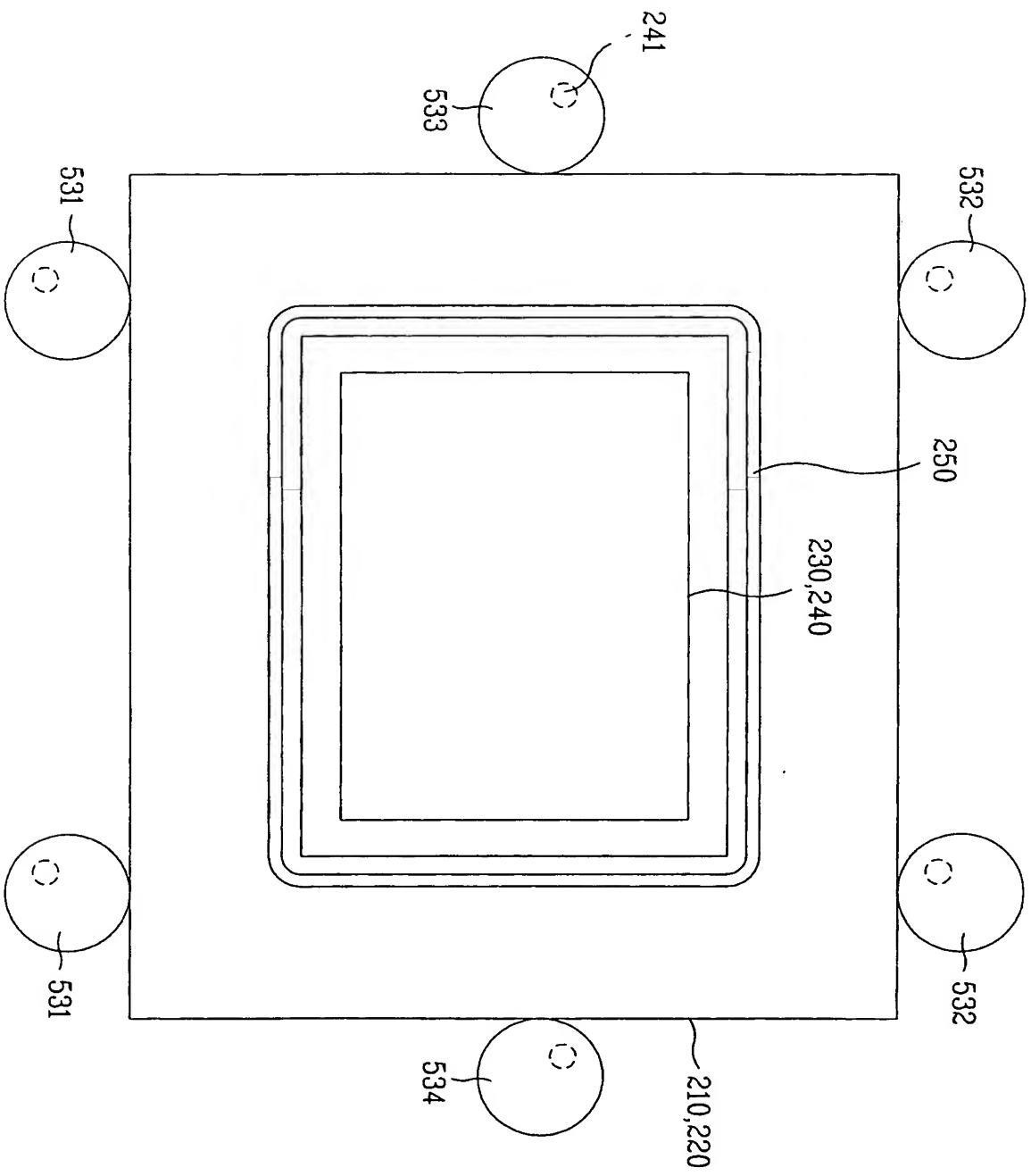


FIG. 19A

This diagram shows a cross-section of a semiconductor device assembly. A central substrate is surrounded by various layers and components. On the left side, there are two vertical structures labeled 510 and 511, with a layer 512 between them. Below these, a layer 210 is visible. In the center, there are two regions labeled N₂. To the right of the N₂ regions, there are several layers and components, including 212, 220, 222, 223, 224, 225, 240, 241, 242, 243, 244, 250, 255, 310, 320, 330, 340, 350, 360, 370, 380, 390, 400, 410, 420, 430, 440, 450, 460, 470, 480, 490, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590, 600, 610, 620, 630, 640, 650, 660, 670, 680, 690, 700, 710, 720, 730, 740, 750, 760, 770, 780, 790, 800, 810, 820, 830, 840, 850, 860, 870, 880, 890, 900, 910, 920, 930, 940, 950, 960, 970, 980, 990. The entire assembly is mounted on a base 100.

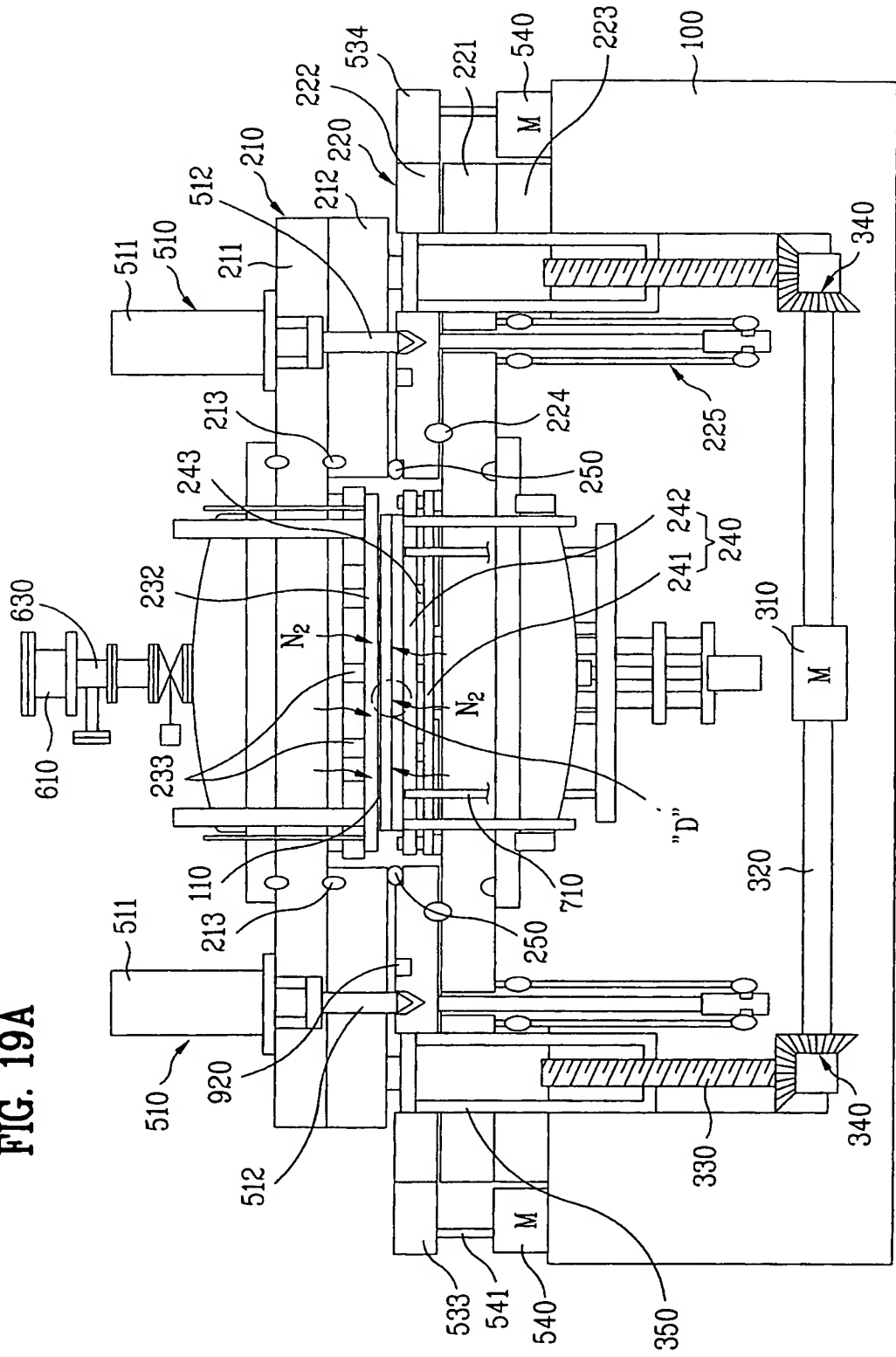


FIG. 19B

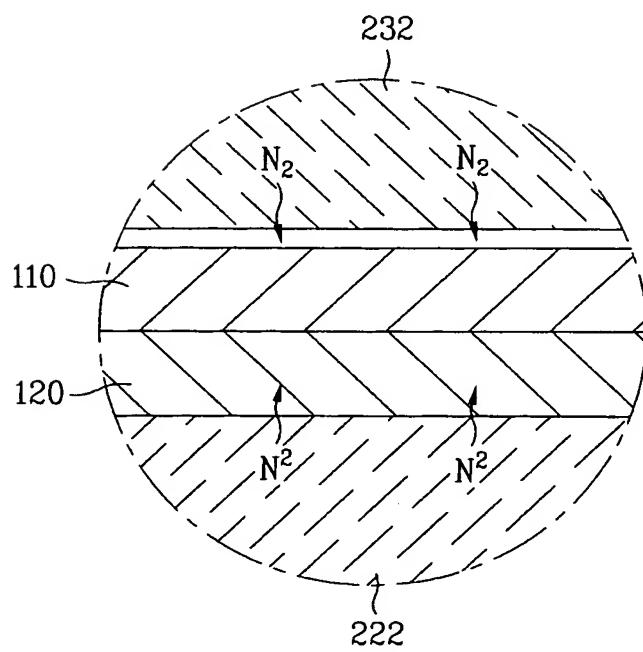


FIG. 20

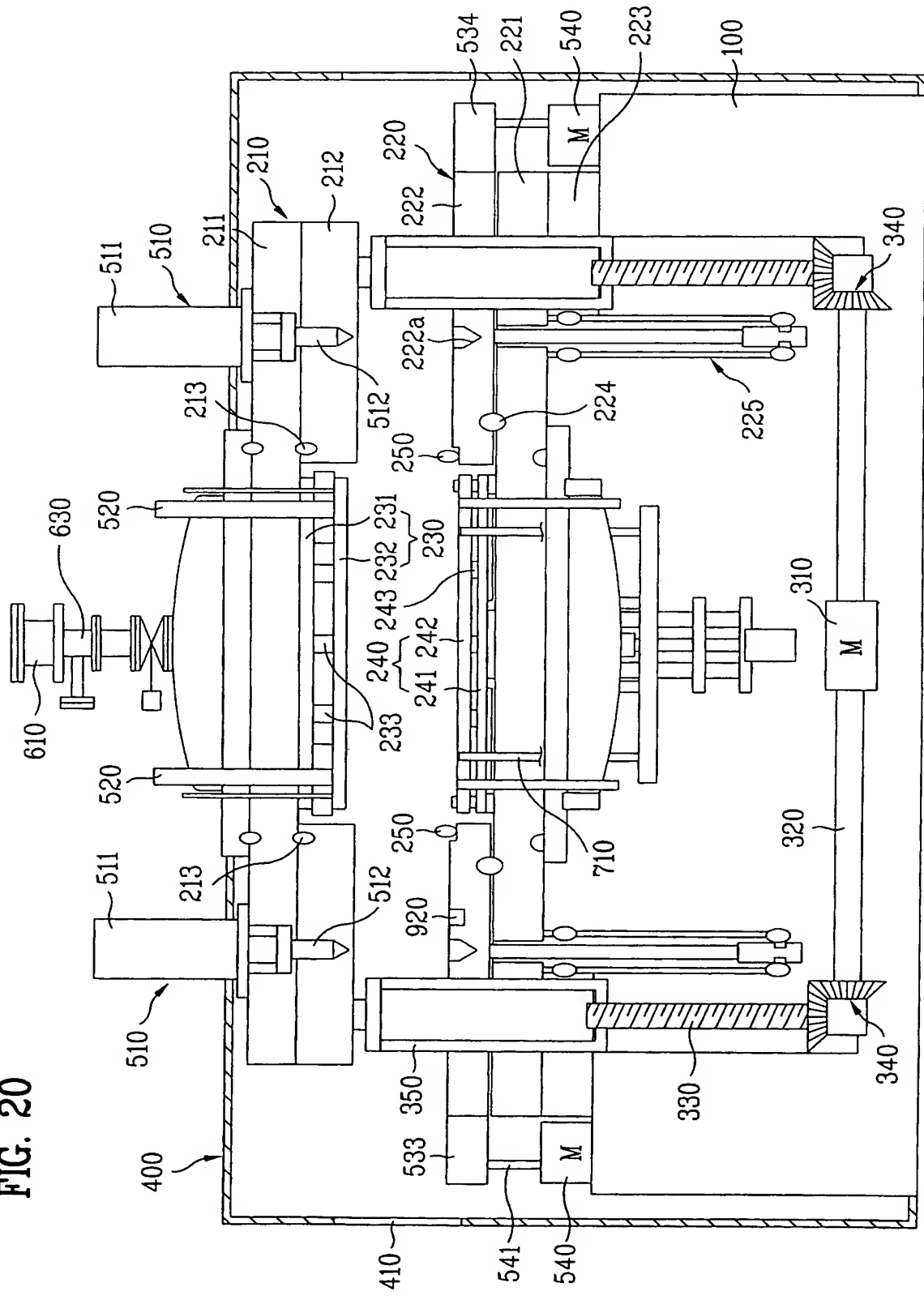
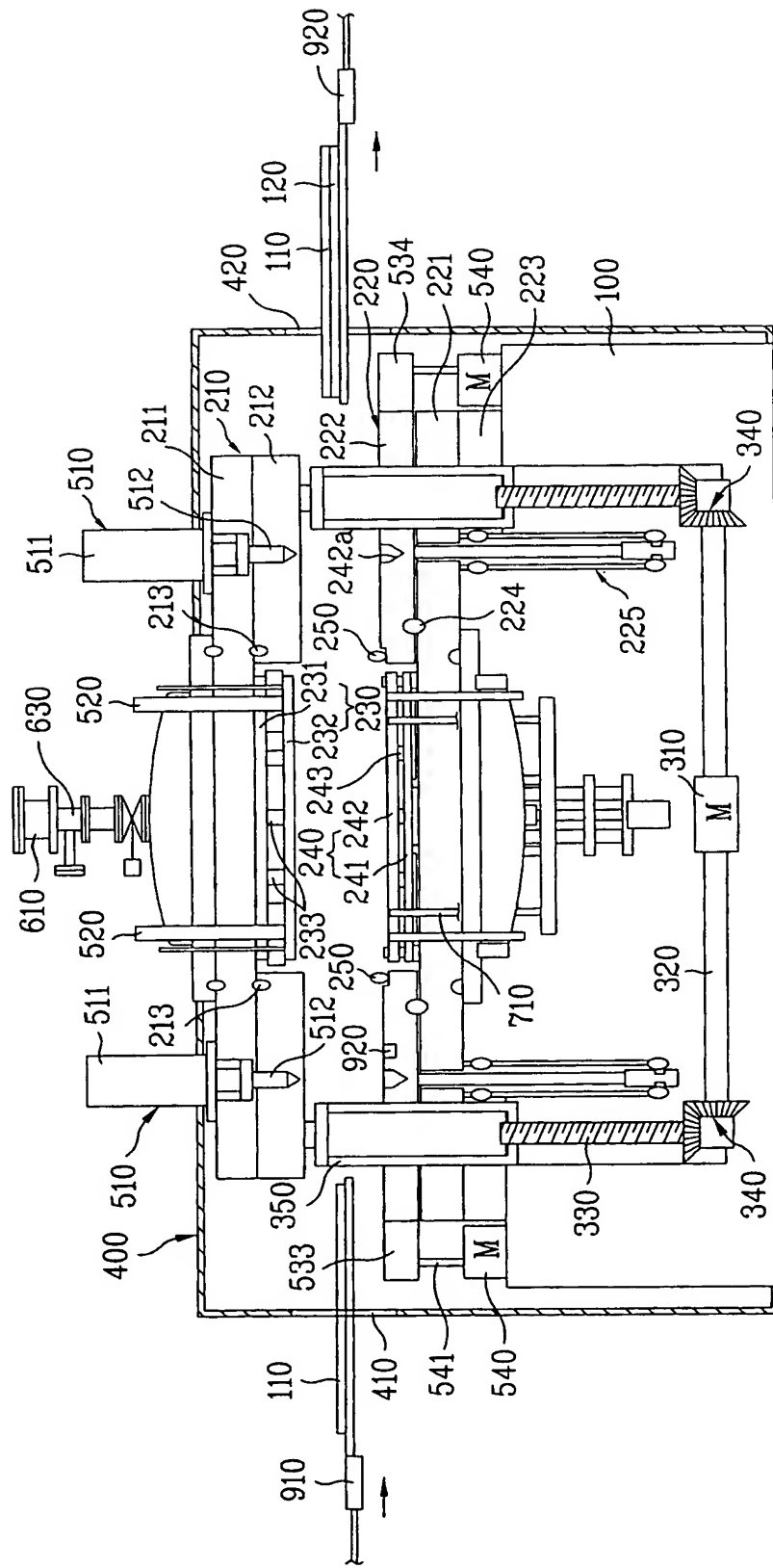


FIG. 21



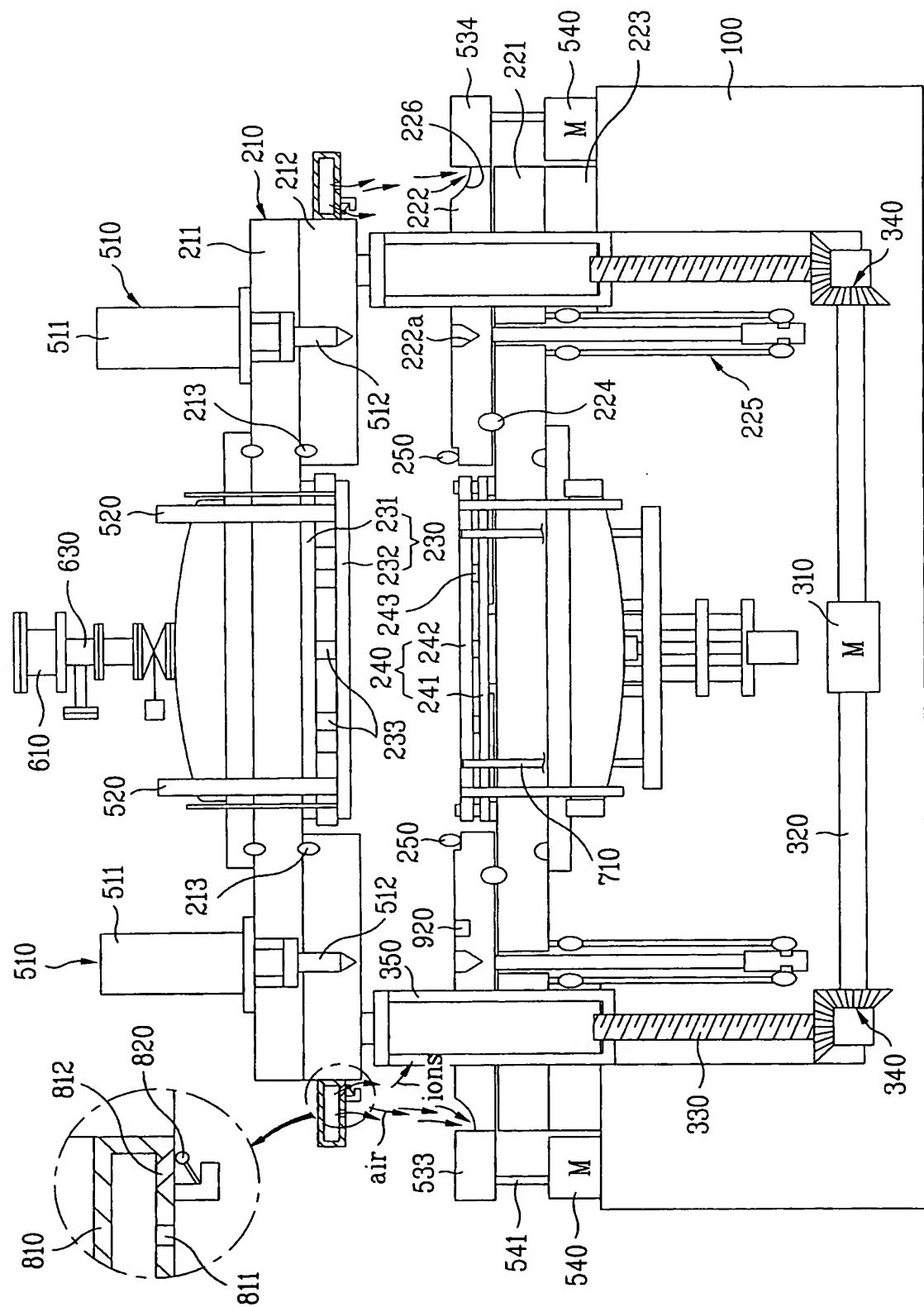


FIG. 23

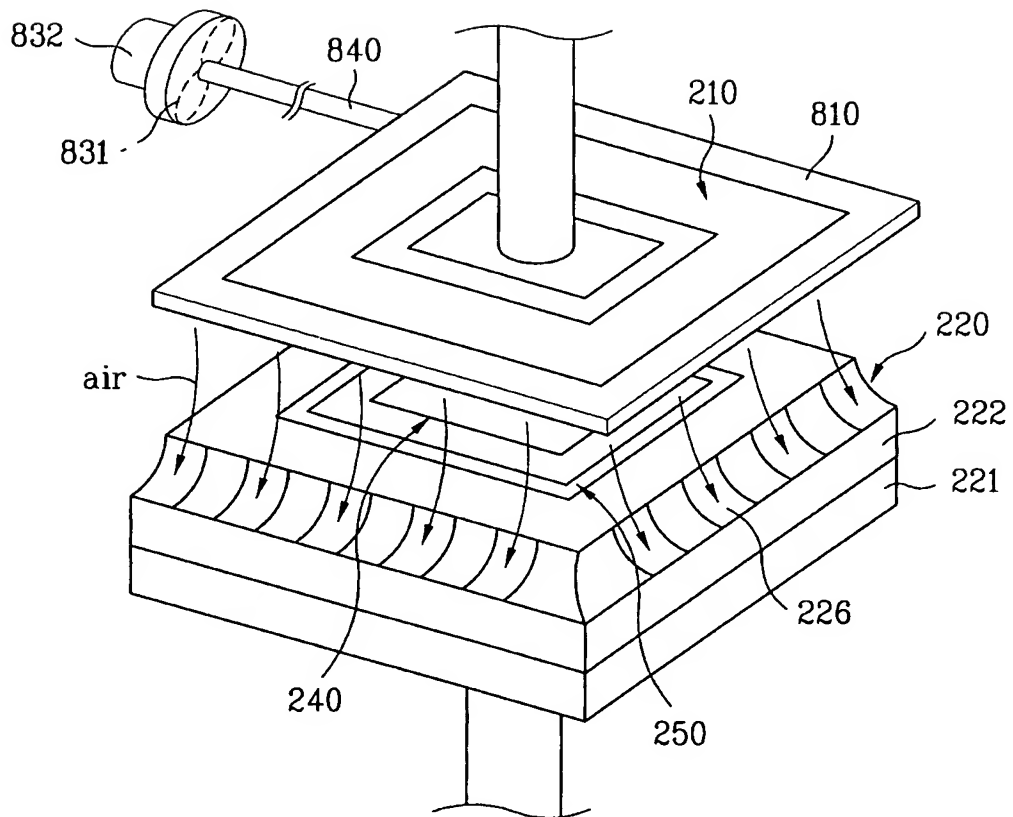


FIG. 25

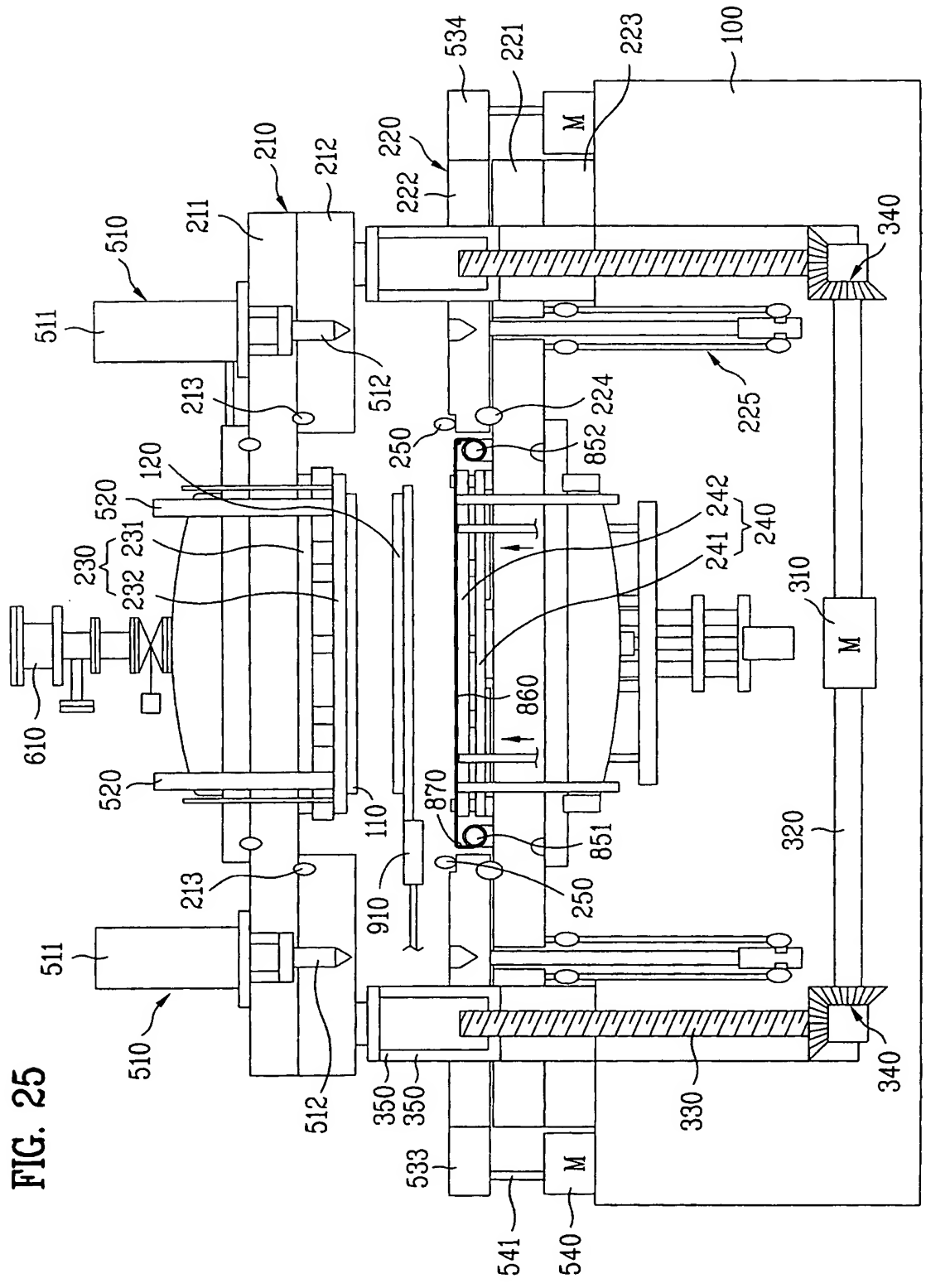


FIG. 26

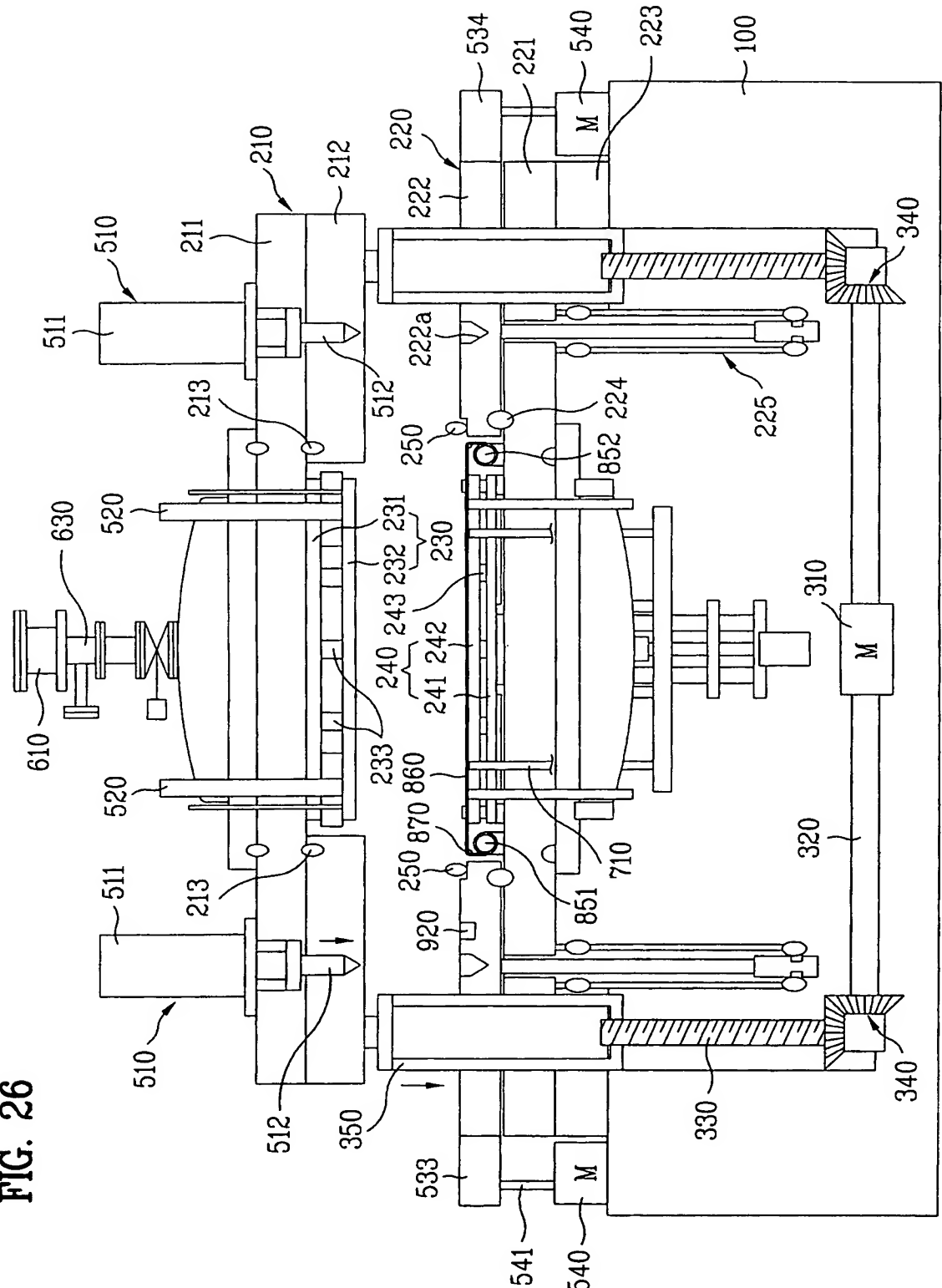


FIG. 27

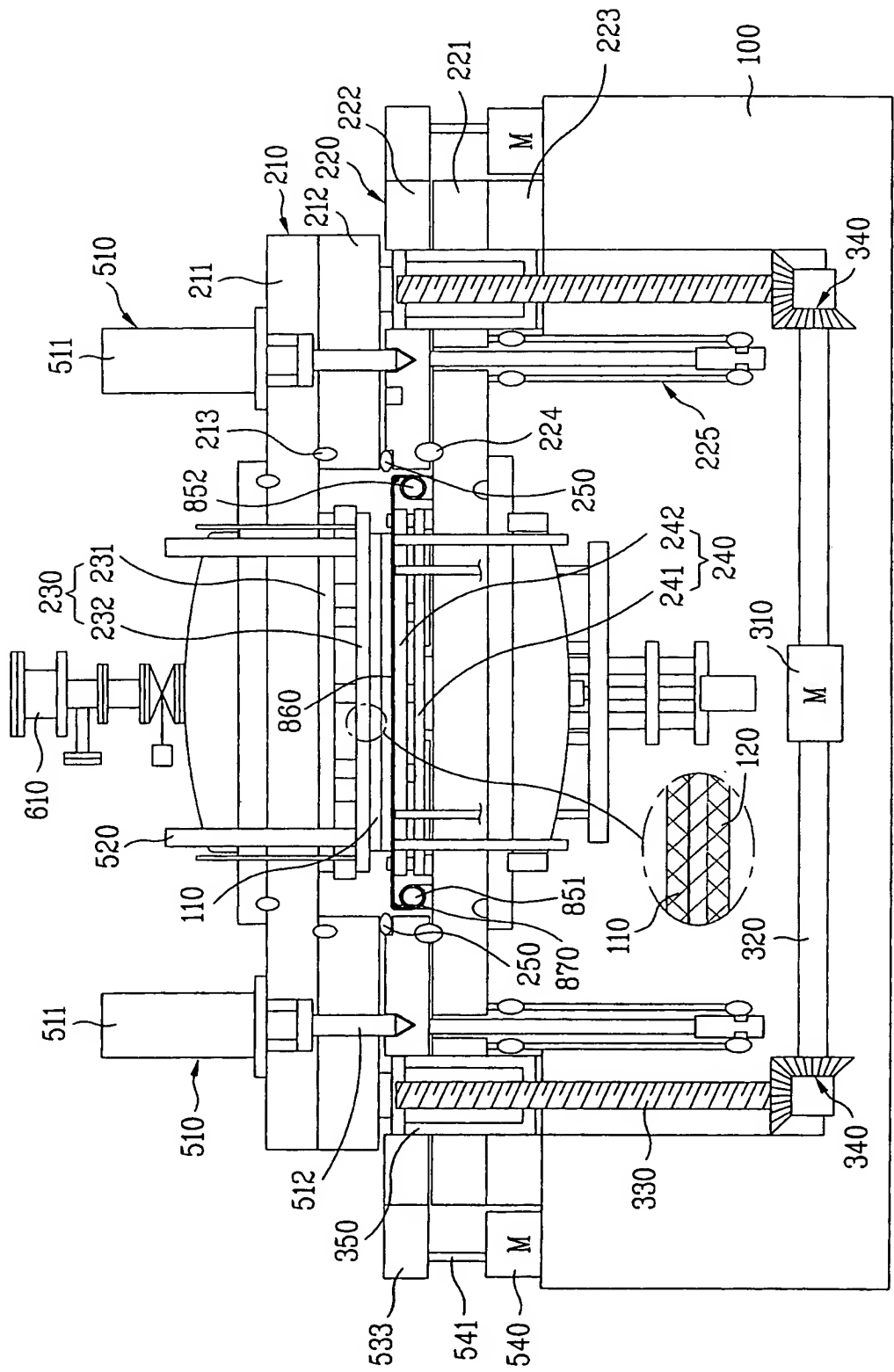
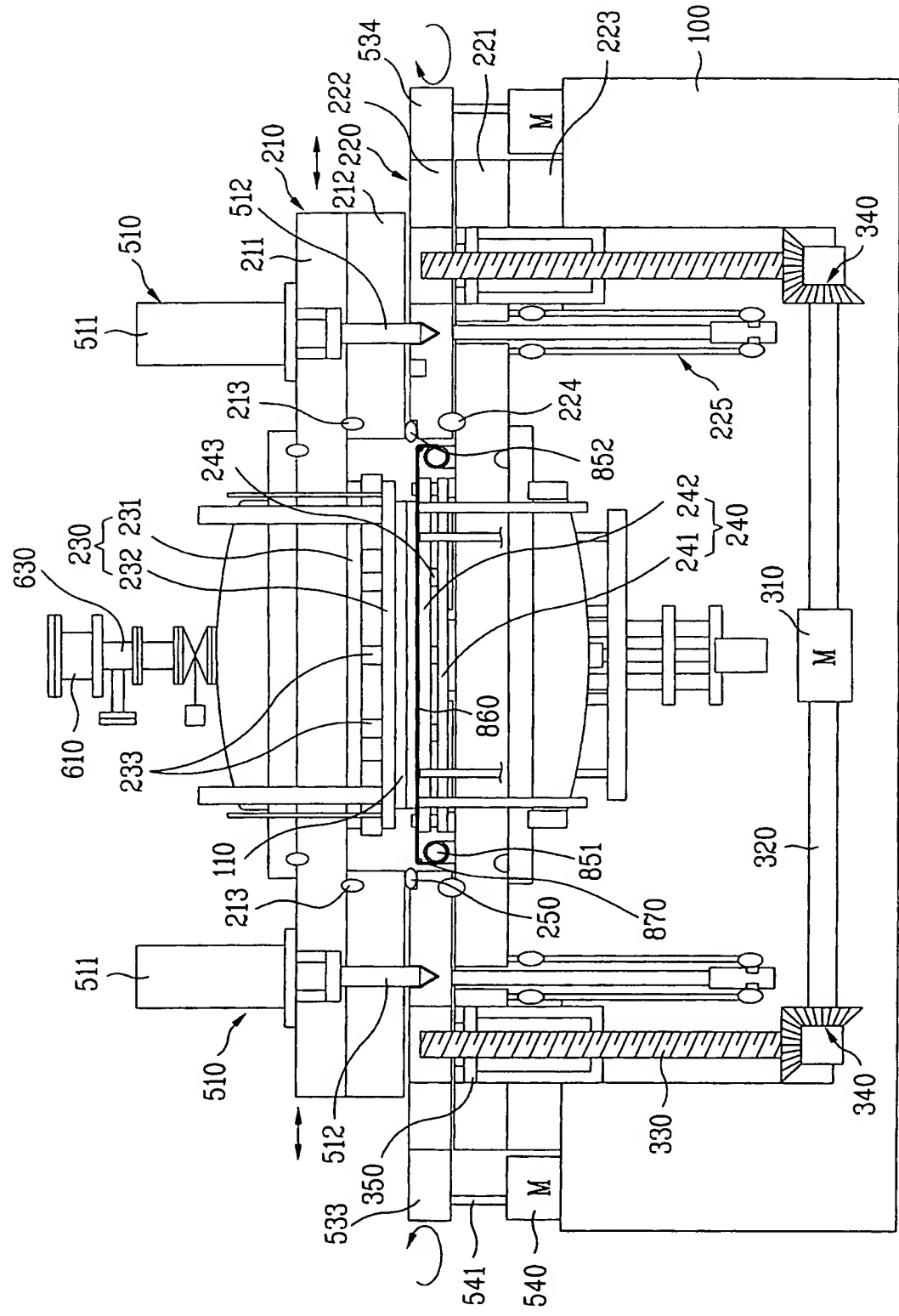


FIG. 28



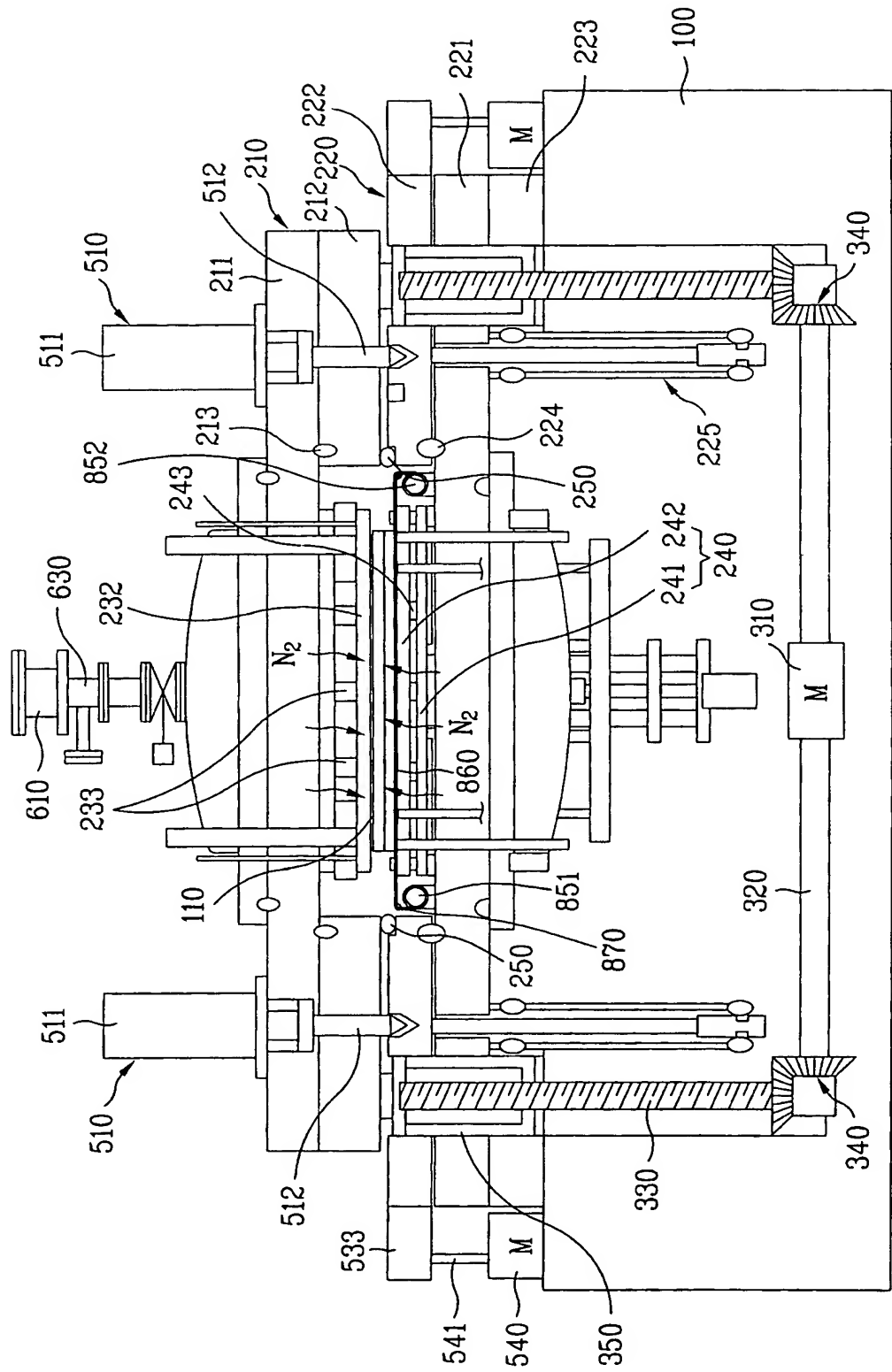


FIG. 30

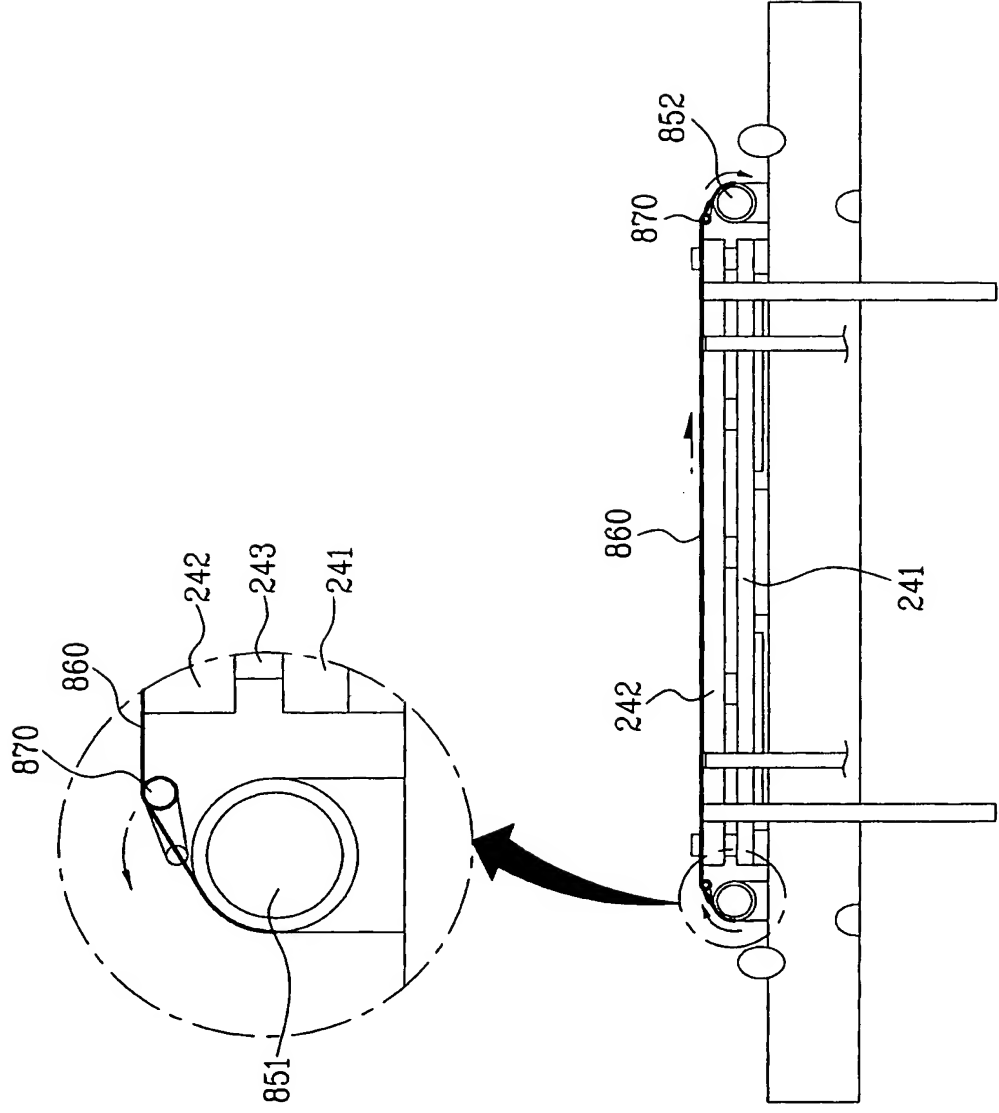


FIG. 31

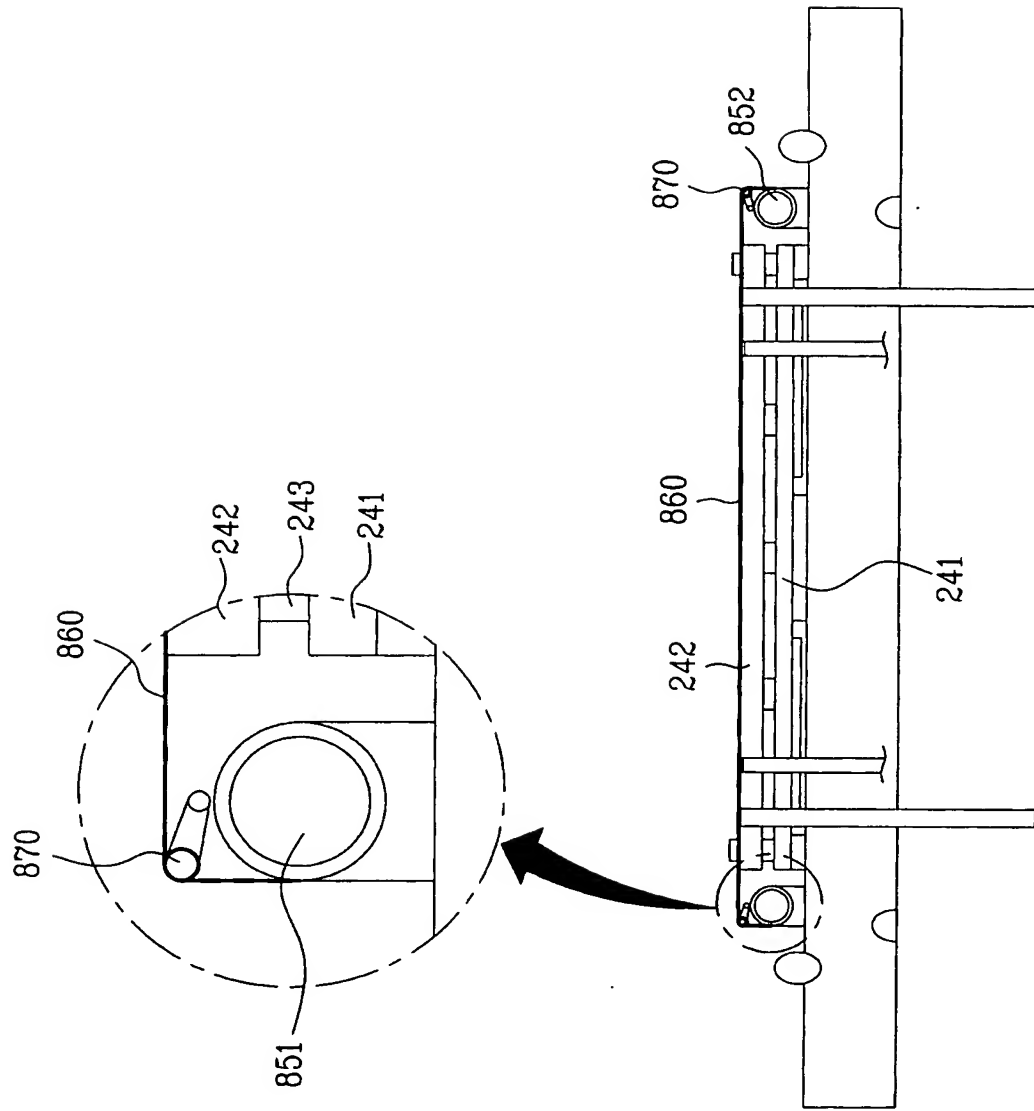


FIG. 32

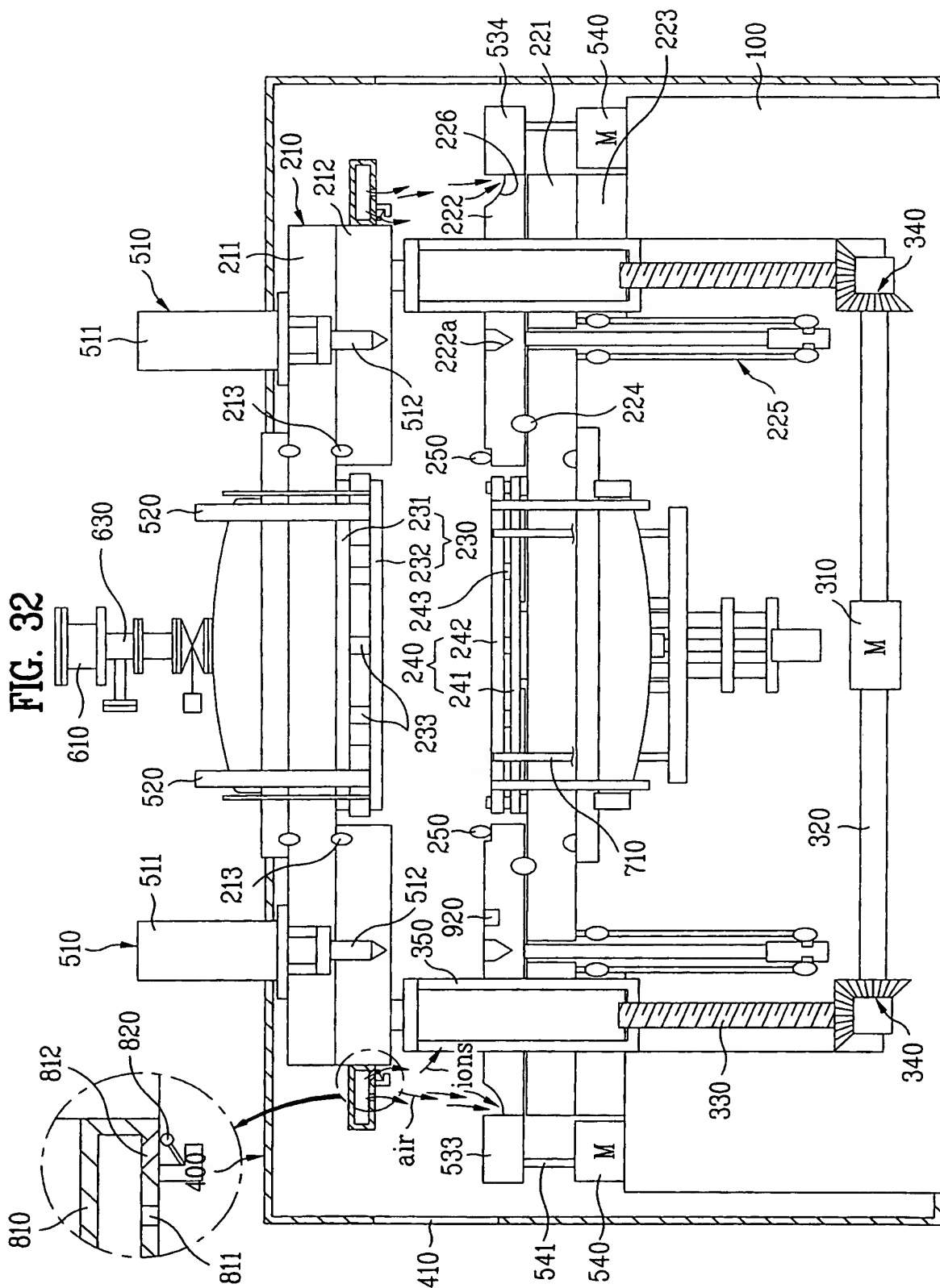


FIG. 33

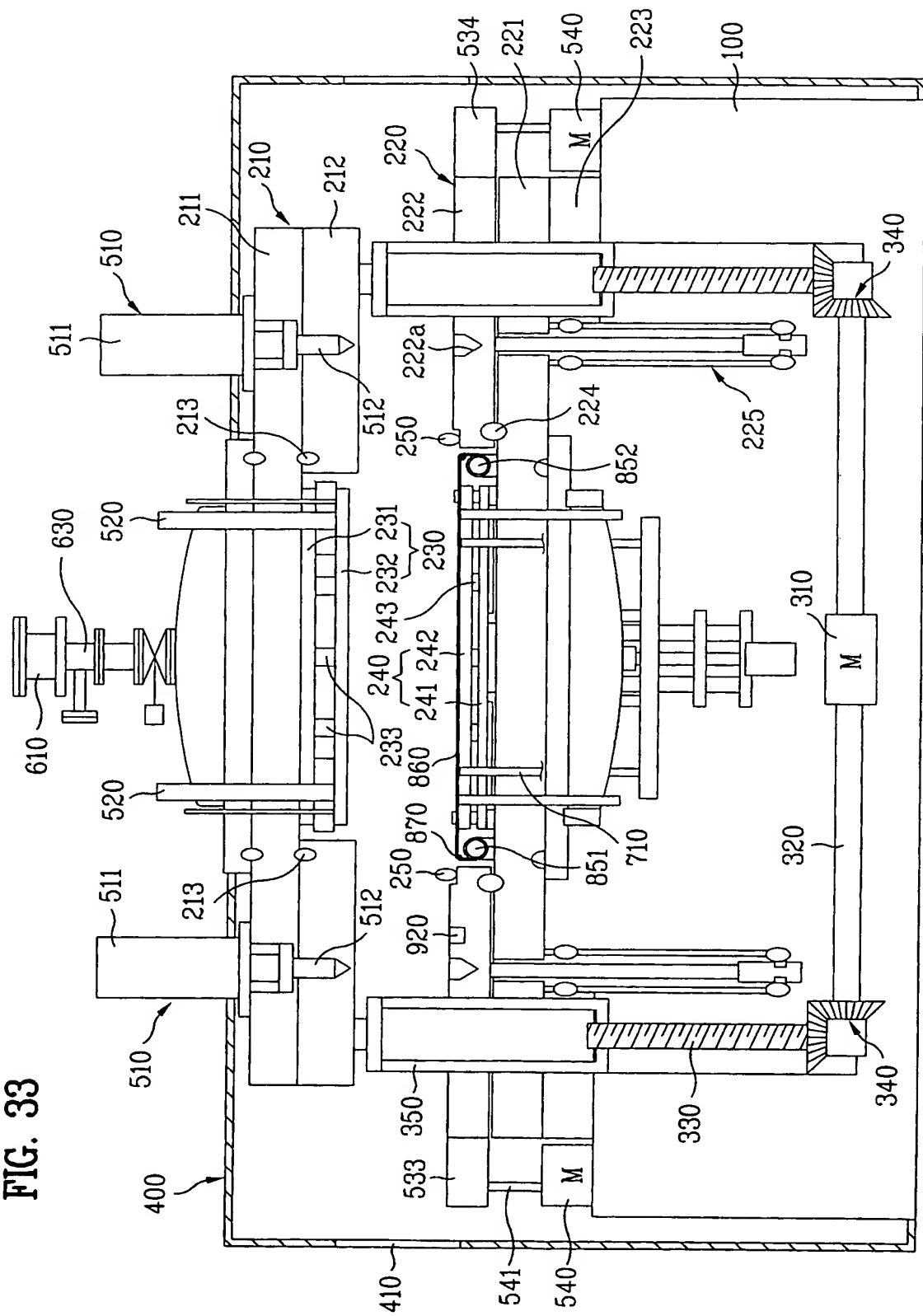


FIG. 34

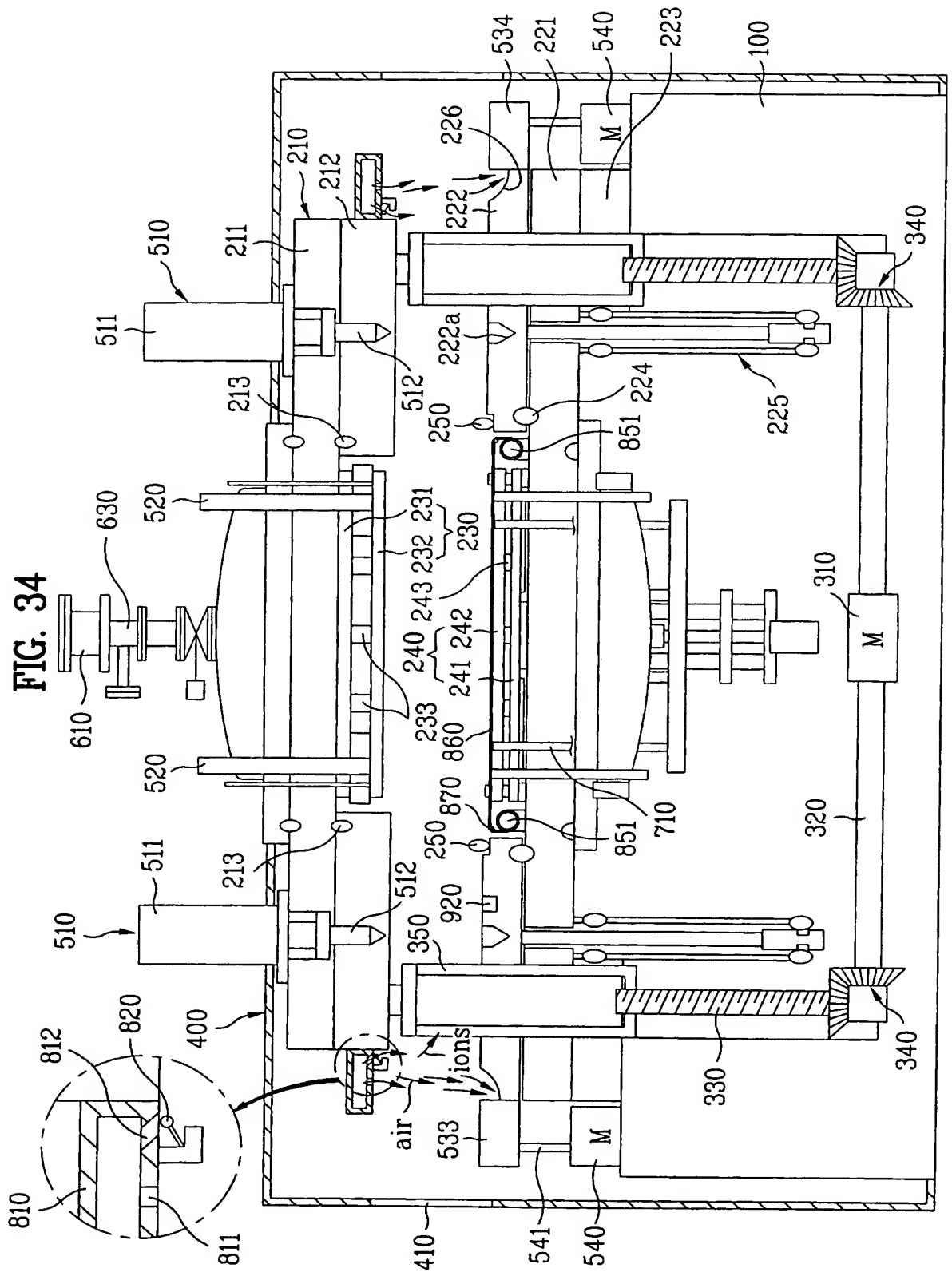


FIG. 35

